# The OIL WEEKLY

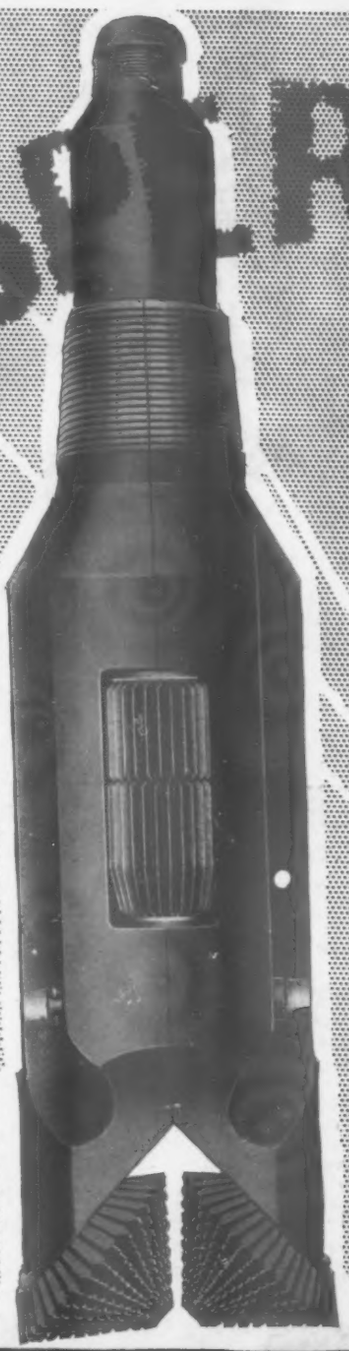
10¢ A COPY

*Exclusively Devoted To The Production and Transportation of Oil and Gas*

July 27, 1928 Volume 50. No. 6



ESPERANTO



SOLD BY SUPPLY STORES EVERYWHERE

The Hughes rock bit speaks an international language.

Wherever hard formation is encountered, in any rotary oil field in the world, there you will find the Hughes bit doing its work to reduce the cost of drilling.

**Hughes Regular Cones for hard formations**

**Hughes Self-Cleaning Cones for semi-hard formations**

(By MacDonald)

**HUGHES TOOL COMPANY**

*Main Offices and Plant*

HOUSTON TEXAS

*Service Plants* Los Angeles, Calif. Oklahoma City, Okla.

*Export Office* Woolworth Bldg. New York City

# AMONG THE HOST

*Which employ electricity with scientific skill and precision—*

The principles of design, construction and operation of the Zero Hour Electric Bomb, for oil well shooting, are identical with those employed in hundreds of electrical machines and appliances which, like the Zero Hour Bomb, enjoy a daily use in the business and domestic affairs of up-to-date, progressive people.

*No Zero Electric Bomb Has Ever Exploded Before the Time For Which It Was Set*

Both the STANDARD (1 to 11 hrs.) and SPECIAL (12 to 22 hrs.) TYPES are furnished with either 3¼" O. D. cast iron shell, or with the 2½" O. D. Seamless Tubing shell, with cast iron cap. The Zero Hour Electric Bomb can be obtained through all principal torpedo companies.

**Zero Hour Torpedo Company**

408 Cosden Bldg., Tulsa, Okla.

Day Phone 2-9612

Night Phones 3-1775, 3-7650

Wichita Falls, Texas
Howard Culp,
Phone 7891

Seminole, Okla.,
George Pascoe
Phone 410

# Zero Hour
## Electric Bomb

*The OIL WEEKLY. Issued weekly by the Gulf Publishing Co., 3301 Buffalo Drive, Houston, Texas. Subscription price $1.00 per year; 10 cents per copy. Entered as second-class mail matter December 23, 1916, at the post office at Houston, Texas, under act of March 3, 1879.*

# SMOOTHNESS

SMOOTHNESS is a quality to look for in pump operation, not merely because it soothes the nerves [which is important enough] but mainly because smoothness is an external sign of internal efficiency. Smoothness means absence of friction. It indicates parts in correct relation to one another. It spells long life.

The next time you see a GASO pump in operation, note particularly the small amount of vibration compared to pumps of similar design. It is another reason why so many users who try GASOS once standardize on them for all time.

GASO PUMP & BURNER MFG. CO.
*Tulsa, Oklahoma*

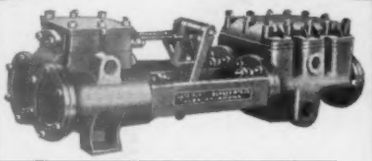


Figure 401—For 175 to 800 pound pressures; a widely used model with an inclination to do the same work as much more expensive types.

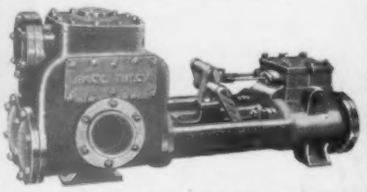


Figure 401-S—An adaptation of Figure 401. Especially suited to refinery uses or wherever else a large capacity, low pressure pump is required.

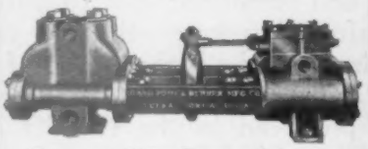


Figure 404—Valve Pot type for 500 to 800 pound pressures. Valve pots accessible from outside. Ideal for high pressure gasoline and acid work.

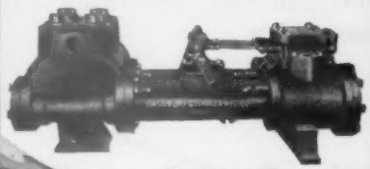


Figure 407—600 to 1,000 pound pressures. A sturdy, large capacity, high pressure steam pump, meeting a large variety of demands. Valve pot type.

# GASO PUMPS
## for every oil industry need

# STRUCTURAL STEEL

## for strength ~ permanence

FIRST to perfect the structural steel derrick; first to galvanize it against rust and corrosion; first to introduce the re-enforced feature—through careful designing and the highest type of engineering skill, International has incorporated and produced in the IDECO Structural Steel Derrick inherent values that make it unquestionably the strongest yet the lightest and most practical derrick on the market today.

*Other*
*IDECO Oilfield Products*

Steel Rigs
Bull Wheels
Band Wheels
Calf Wheels
Bull Hoists
Tug Rims
Walking Beams
Rig Irons
Pitmans
Sheaves
Lightning Defense Towers
Tank Steps and Walk Ways
Crown Blocks
Chain Driven Sand Reels
Crank Counter-balances
Tool Boxes
Forge Boxes
Machinery Supports
Steel Buildings

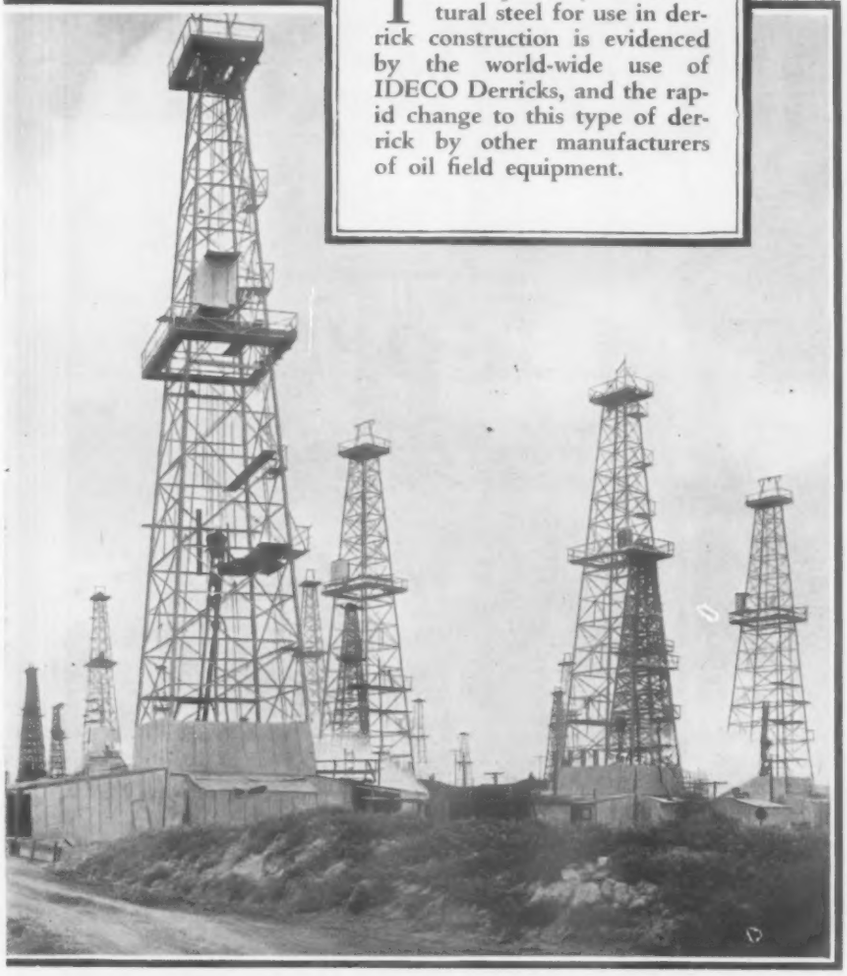
*Branches in every important oil field.*
*Export Offices:*
74 Trinity Place,
New York
Columbus Houston
Los Angeles

**The International Der**
**Columbus, Ohio**

*Branches and Stocks*—Columbus, Ohio; New York, N. Y.; Detroit, Mich.; Amarillo, Borger, Corsicana, Pampa, Panhandle, Texas; Shreveport, Drumright, Okemah, Seminole, Allen, Saskawa, Wewoka, Okla.;

*Say you saw it in The OIL WEEKLY*

THE superiority of structural steel for use in derrick construction is evidenced by the world-wide use of IDECO Derricks, and the rapid change to this type of derrick by other manufacturers of oil field equipment.



THE material and workmanship is of the highest quality. Every brace, every girt, every bolt and rivet is conceived to perform a duty, yet no place is the shearing value of a bolt or rivet a determining factor in the structure. Every joint is a positive connection. There are no friction joints or special bolts or fastenings.

Strong, safe, light in weight; easy to erect and dismantle; There is nothing left to be desired in an IDECO Steel Derrick. Heavily galvanized, rust and the weather cannot eat away its strength. Its light weight and minimum of parts make it easy to move.

# INTERNATIONAL STEEL IDECO DERRICKS (GALVANIZED)

## rick & Equipment Co.

**Torrance, Cal.**

Charleston, W. Va.; Dallas, Houston, Mexia, Wichita Falls, Pyote, Odessa, Oil City, La.; Smackover, Ark.; Eldorado, Kan.; Tulsa, Tonkawa, Denver, Colo.; Casper, Wyo.; Torrance, Los Angeles, Taft, Calif.

442-D

# Serving Sinclair

Petroleum engineers the world over have found Byron Jackson Multiplex pumps meet every possible requirement for pipe line and refinery service. This photograph shows Byron Jackson Multiplex pumps at a Sinclair pipe line station at Stroud, Oklahoma, handling 45,000 barrels per day. Similar pumps are used on the 100-mile from Ventura to Wilmington, the longest natural gasoline line in the world. This company's policy of constantly improving its pumps to meet the needs of the petroleum industry accounts for the wide acceptance of our equipment.

SINCE 1872

**BYRON JACKSON PUMP CO.**

Factories: BERKELEY, Los Angeles, Visalia

Branches: San Francisco, Portland, Salt Lake, Dallas, Phoenix

**BYRON JACKSON**

**CENTRIFUGAL PUMPS FOR EVERY SERVICE**

# *A Letter from Harry G. Nye*

# NYE

**Thin Blade Cutter Wheels Knurled or Smooth Edge**

Made to Fit
All
Standard Makes
of
Pipe Cutters

*Knurled Edge*

*Smooth Edge*

Nye cutter wheels are made from the highest grade tool steel, and are hardened and tempered in oil. Blades about 1/16th of an inch thick and straight from hub to cutting edge. Cut with one-third the time and power required by the old type wheels. And also they are—

ABSOLUTELY GUARANTEED

To the Oil Men of the U. S. A.

Friends:

Whenever any gloomygus begins to talk to me about a presidential year, and Congress, and other calamities, and to say that in this country a poor man ain't got no chance, I am reminded of the fact that the people of the United States every second of every 24-hour day invest $1000 in stocks and bonds .

Now, a thousand dollars a second is a lot of money. It is more than some alienists get for testifying that the man was insane and that a murderer, instead of being locked up, should be made a family pet. It is more than some politicians get for spending any public funds that may be left after they get it.

If the American people can put a thousand dollars down in the national sock every second, then they ought to be able to put in a new heating plant every thirty or forty years, and to put in a bathtub after they find out that a bath isn't such a bad idea. A thousand dollars a second is $60,000 a minute and $3,600,000 an hour.

That is why, when people ask me about business, that I look at the world through rose-colored glasses.. The trouble with a lot of folks who look ahead is that they don't look ahead any farther than a fellow driving a Ford. But there isn't anything much the matter with a people that will spend $2,000,000 to see a prize fight; that is, nothing much financially.

The trouble with a lot of pessimists is that they use their nose more than their eyes. They smell a dead cat under the house and they think it is an epidemic. They ought to look instead of smell. A man can look thirty miles, but he can smell only a few feet; and generally they are his own.

You don't have to coax a man to take a long look at a pretty girl, and you ought not to have to coax him to take a long look at his business. It is the fellow who looks far enough ahead who isn't ever very far behind. That is why I urge a man to buy Nye tools. They will be giving him service when all that cheaper tools will be giving him is trouble.

Yours without trouble,

HARRY G. NYE,

Otherwise Known As

THE NYE TOOL & MACHINE WORKS

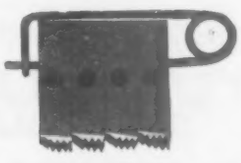
4120-30 Fullerton Avenue

Chicago, Ill.

(Copyright, 1928, by Harry G. Nye. All rights reserved)

The rugged construction and few working parts account for the simplicity and durability of these Nye Receding models. They do the work easily and efficiently.

**No. 1 Nye Receding Pipe Threader, complete ....$9.60 net**
**West of Rocky Mountains $10.80**



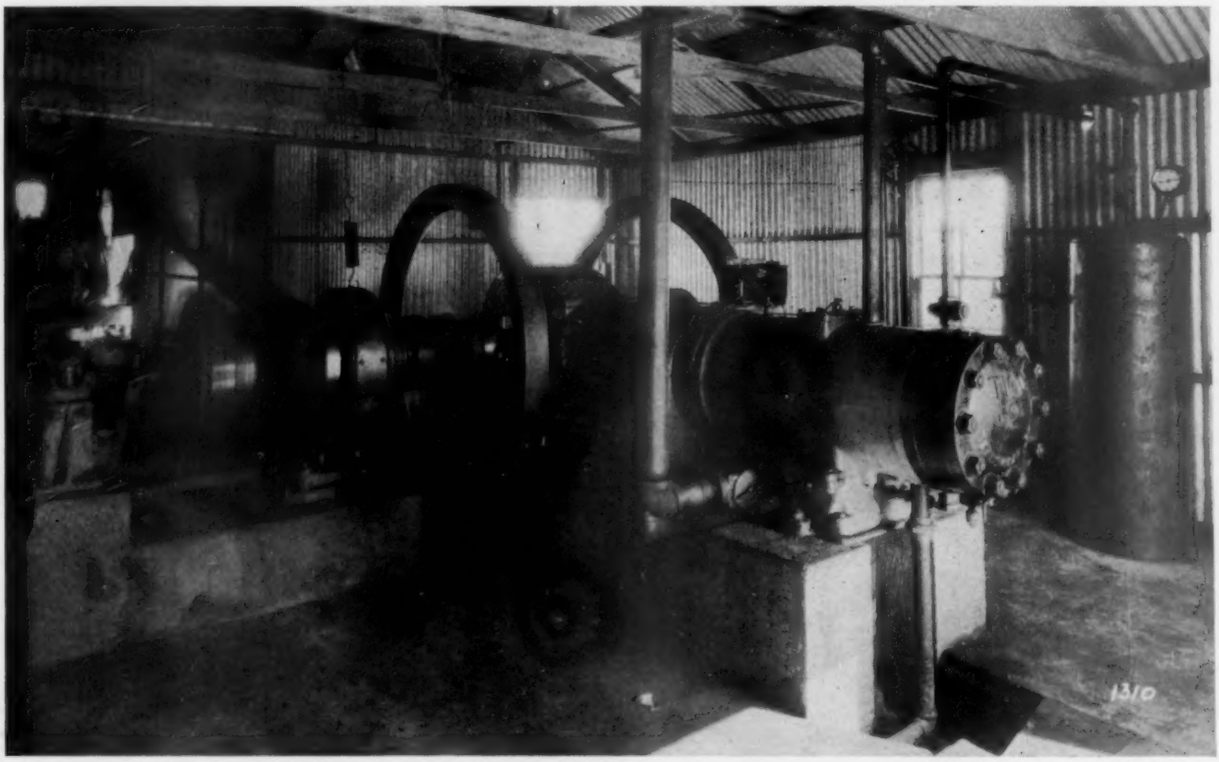
**NYE (Toledo Type) Chasers Fit Nos. 1, 1A and 2 NYE (Toledo Type) Stocks**

Each set is guaranteed in every particular. Will cut much easier than other similar dies.

**No. 1, 1" to 1½" ..$ .75 per-set net**
**No. 1, 2" .....$1.25 per set net**
**No. 2, 2½" to 4" ..$3.60 per set net**

The No. 1A is the same as the No. 1, except that it is equipped with a ratchet for work where space is restricted.

**No. 1A Nye Receding Pipe Threader, complete ...$12.00 net**
**West of Rocky Mountains $13.50**



# TICO GAS ENGINES

*"Runs Like a Sewing Machine and Handles Its Load Like It Was Idling."*

That's what P. J. King of the Roxana Petroleum Company, at Seminole, Oklahoma, says of their 55 H. P., Tico Gas Engine shown above.

It is a typical example of the confidence and esteem of hundreds of satisfied Tico Gas Engine users throughout the oil fields.

You, too, can assure yourself of the same dependable service by specifying Tico. It is an engine of surpassing mechanical efficiency, unprecedented in performance, economical in operation and particularly an engine that assures lasting satisfaction.

The TITUSVILLE IRON WORKS Co.
TITUSVILLE - PENNA.

Titusville Acme Boilers
Single and Twin Steam Drilling Engines
Tico Gas Engines
Band Wheel and Geared Powers

DISTRIBUTORS
The CONTINENTAL SUPPLY COMPANY

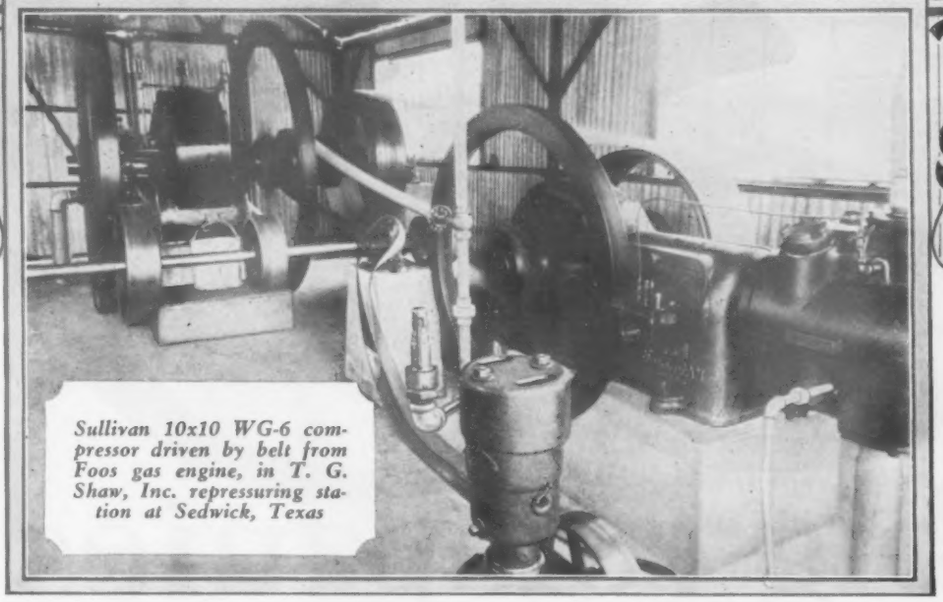
*For Export*
THE CONTINENTAL WELL SUPPLY CO.
72-76 Trinity Court,
New York City, N. Y.

*For California*
CALIFORNIA MACHINERY SUPPLY CO.
615 Roosevelt Bldg.,
Los Angeles, Calif.

Titusville Acme Rotaries
Acme Swivels and Speed Draw Works
High Pressure Boilers
Crown Blocks
Slush Pumps

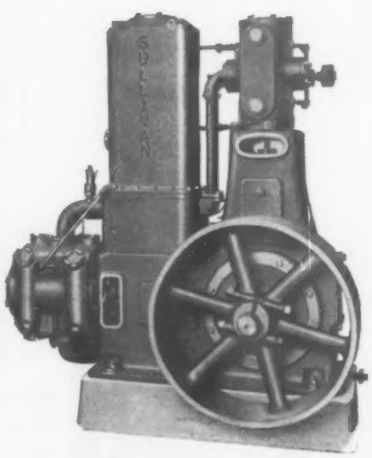
RUGGED - ENDURING

# Sullivan Compressors



*Sullivan 10x10 WG-6 compressor driven by belt from Foos gas engine, in T. G. Shaw, Inc. repressuring station at Sedwick, Texas*

## The WG-6 is Especially Suitable for Repressuring Work



*SULLIVAN High Pressure Angle Compound Compressors are unsurpassed for economy and efficiency in air and gas lift work.*

Repressuring calls for compressors that can be operated continuously without attention, except at long intervals, and at low cost for maintenance. The Sullivan WG-6 type Compressor is especially suited to work of this character because of its simplicity, compactness, rugged wearing qualities, automatic lubrication, complete enclosure of parts, and automatic wafer air or gas valves. These compressors, good for working pressures as high as 120 pounds, are available in convenient sizes, including 6x6, 8x8, 10x10, 12x12, etc.

*"If CONTINENTAL Sells It, There Is No Better"*

**THE CONTINENTAL SUPPLY COMPANY**
General Offices: St. Louis
Export Office: 74 Trinity Court, New York
London Office: 316-317 Dashwood House, Old Broad St., E. C. 2

THE CONTINENTAL SUPPLY CO., Ltd.,
411 Lancaster Building, Calgary, Alberta, Canada

# CONTINENTAL

# 35 big companies *order* 27,418 Bettis Protectors

The roll call of users of Bettis Protectors in the deep fields looks like a "Who's Who" in the Oil Industry. Practically every company operating in deep fields has adopted Bettis Protectors. Thirty-five of the leading companies have purchased more than 27,000 of these anti-friction collars within the last 150 days. Shipments are being made to practically every rotary field both in America and foreign fields.

Bettis Protectors will repay their cost to you many times over by reducing to a minimum the wear on casing, tool joints and collars, and by decreasing fuel consumption.

Data has been gathered from different fields relative to the operation of Bettis Protectors and will be supplied upon request.

*Best bet yet*

*Patented*

**Patterson-Ballagh Corp.**

3769 Moneta Ave. Los Angeles, Calif.
Stocks carried at Los Angeles, Houston and New York

*Texas and Louisiana Distributors:*

BETTIS SALES COMPANY
617 Public National Bank Bldg., Houston, Texas

# The *Bettis* way is the *Better* way

*Say you saw it in The OIL WEEKLY*

# Spang Weldless Drilling Jars

## *Cost Less Because They Deliver Much More*

Patented Oct. 6, 1925—Other Patents Pending

**Just try a set of Spang Weldless Drilling Jars and you will find that they cost less per foot drilled than any welded jar you can obtain — a fact that has been repeatedly proved in all formations.**

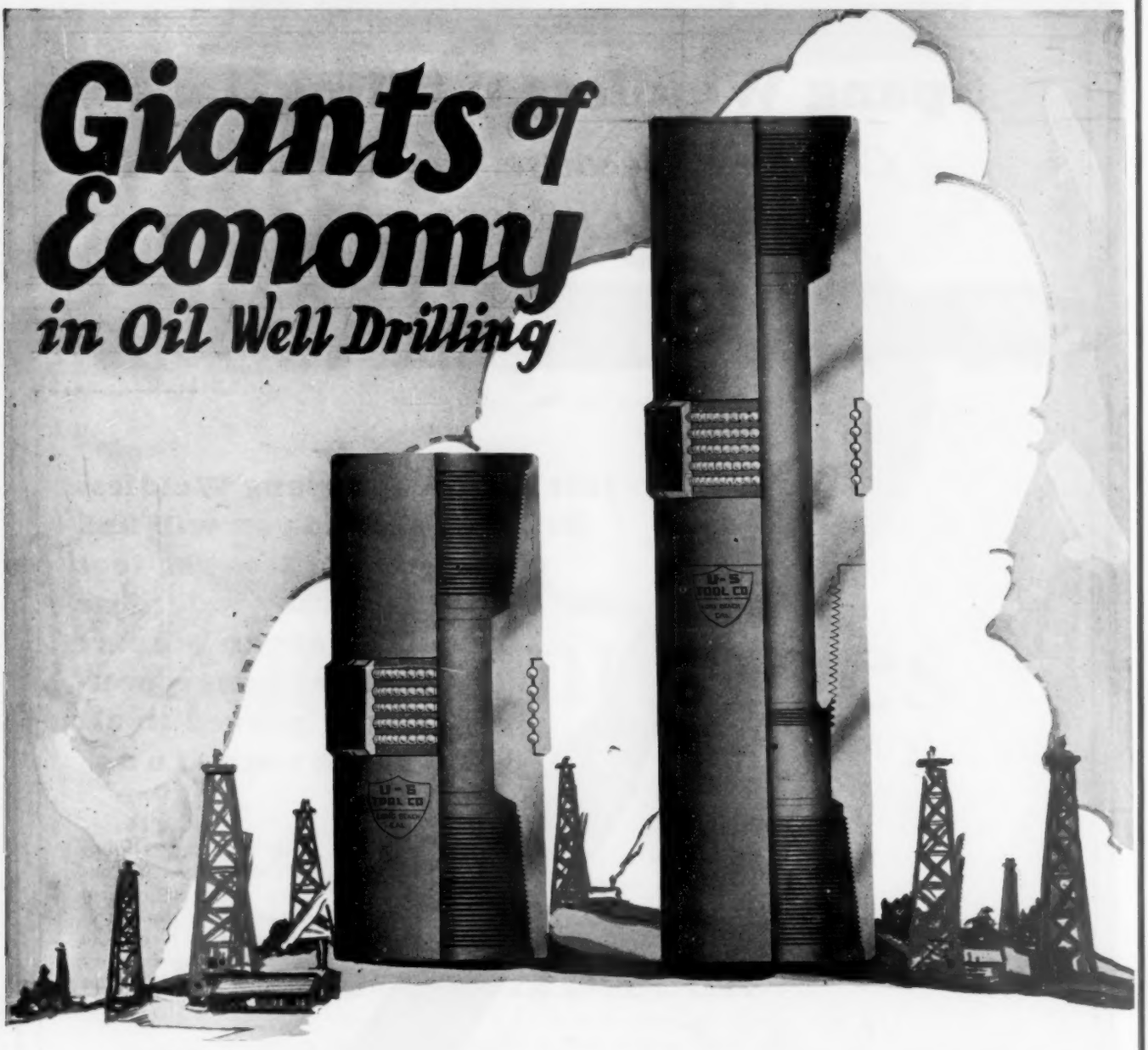
*Only in Spang Drilling Jars do you get the one piece super strength of forged alloy steel, heat treated after forging to assure the toughest, most enduring drilling jar made.*

**SPANG AND COMPANY**
**BUTLER, PENNSYLVANIA**

*Sold by all leading Supply Houses*

Patented Oct. 6, 1925—Other Patents Pending

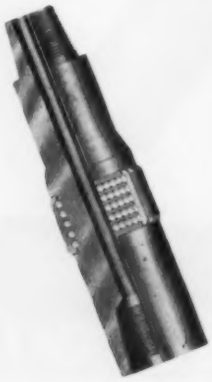
# Giants of Economy in Oil Well Drilling




## U-S Anti Friction Tool Joints, Collars & Subs

U-S ANTI-FRICTION SUB

Patent Applied For



Climatic elements cannot injure U-S Anti-Friction Tool Joints, Collars and Subs. When an operator finds it necessary to lay a string of drill pipe on the rack between drilling operations, he can do so without imparing them. There is no risk of deterioration from the heat of the sun or from the ravages of rain and moisture. U-S Anti-Friction Tool Joints, Collars and Subs are made entirely of steel, and, unlike tools for similar use, made of less durable materials, they do not deteriorate when not in use. That is an economy angle well to remember. It is false economy to buy anything that gives you less than U-S Anti-Friction joints—in service, in durability, in efficiency.

**U-S TOOL CO.**
Manufacturers of Oil Well Tools
Long Beach California

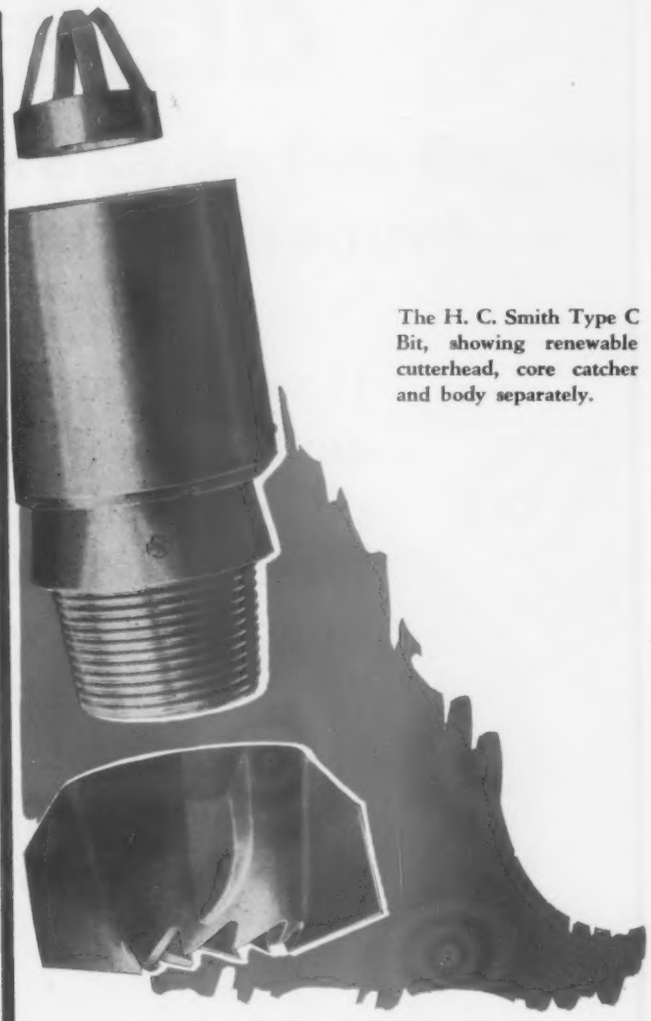
*Say you saw it in The OIL WEEKLY*

OPERATORS who demand speed with economy in drilling operations are greatly impressed by the performance of this new H. C. Smith Type "C" Coring Outfit.

The renewable cutterhead feature permits economically discarding worn cutters without the trouble and expense of building-up. Losses of time and production are eliminated.

Drop - forged high - carbon steel throughout. Renewable cutterheads can be changed in a few seconds, and can be economically discarded when worn down. They are especially adapted for use with hard sets such as Borium, Dymonettes, Titan, etc. All four cutter blades on the bit cut the same size gauge.

Circulation is close to the teeth; giving clean, full-value cores of all formations. Simple in design and construction—efficient and reliable in operation. Descriptive folder on request.



The H. C. Smith Type C Bit, showing renewable cutterhead, core catcher and body separately.

**H. C. SMITH MANUFACTURING CO., Inc.**
WHITTIER, CALIFORNIA
*Branch Offices and Warehouses:*
Taft, Calif. Bakersfield, Calif. Ventura, Calif.
*Oil Well Supply Co., Exclusive Distributors*
*All Over the World*

# H.C.SMITH
# Type C
# CORING OUTFIT

If you are not treating your emulsions - whether fresh "cut oil" or "tank bottoms" - there is a serious "leak" - a dissipation of profits - in your operations. Tret-O-Lite offers a means of treating emulsions simply, thoroughly and economically.

Tret-O-lite

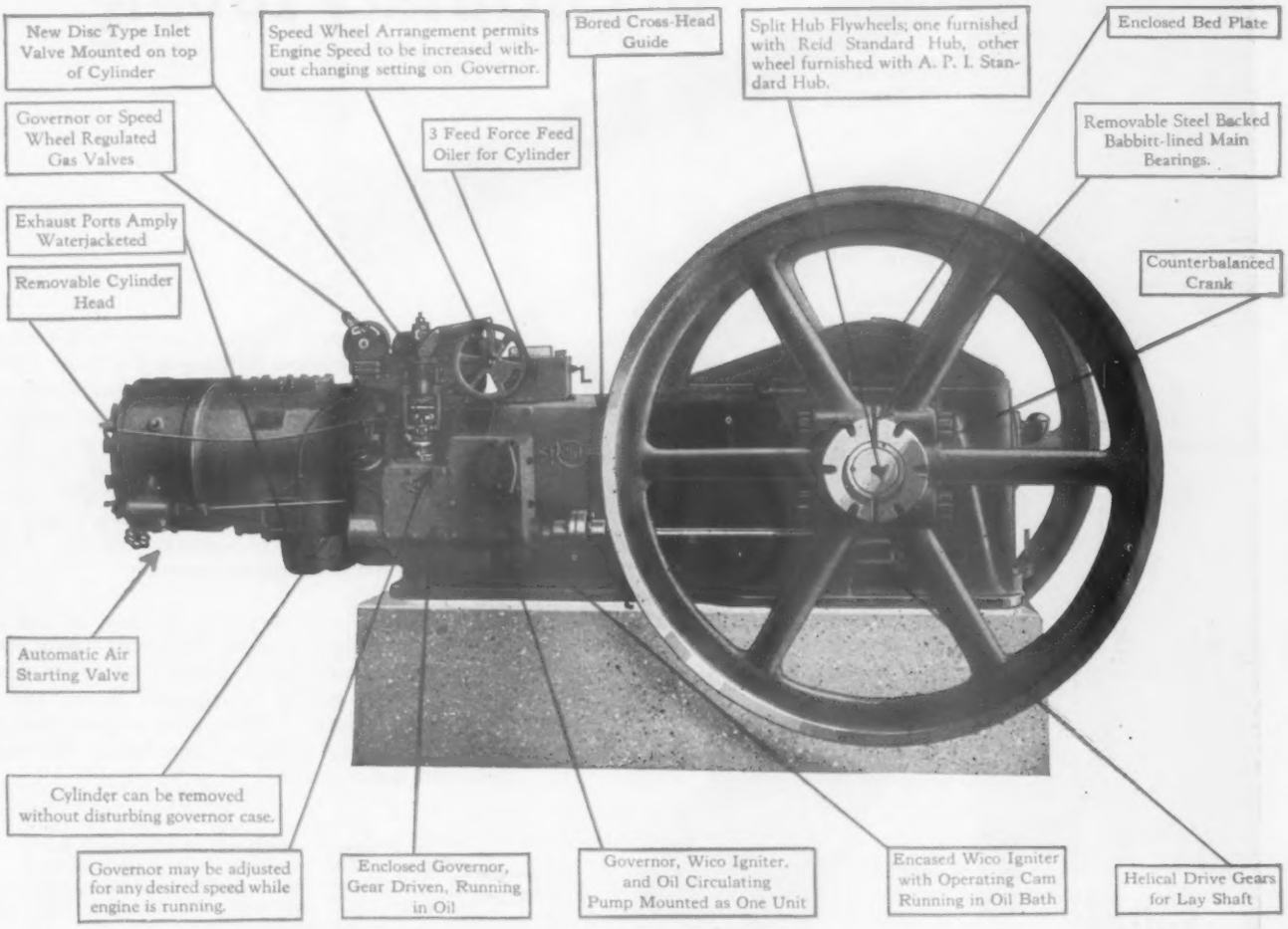
Reg. U. S. Pat. Off.

W. S. BARNICKEL & CO.
Webster Groves, Mo.

*Say you saw it in The OIL WEEKLY*

# THE REID

## Type C Enclosed Two Cycle Gas Engine with these outstanding features—


New Disc Type Inlet Valve Mounted on top of Cylinder
Speed Wheel Arrangement permits Engine Speed to be increased without changing setting on Governor.
Bored Cross-Head Guide
Split Hub Flywheels; one furnished with Reid Standard Hub, other wheel furnished with A. P. I. Standard Hub.
Enclosed Bed Plate
Governor or Speed Wheel Regulated Gas Valves
3 Feed Force Feed Oiler for Cylinder
Removable Steel Backed Babbitt-lined Main Bearings.
Exhaust Ports Amply Waterjacketed
Removable Cylinder Head
Counterbalanced Crank
Automatic Air Starting Valve
Cylinder can be removed without disturbing governor case.
Governor may be adjusted for any desired speed while engine is running.
Enclosed Governor, Gear Driven, Running in Oil
Governor, Wico Igniter, and Oil Circulating Pump Mounted as One Unit
Encased Wico Igniter with Operating Cam Running in Oil Bath
Helical Drive Gears for Lay Shaft

## ——makes you want the complete information——doesn't it?

*Ask for Bulletin No. 37*

# JOSEPH REID GAS ENGINE COMPANY
## OIL CITY, PENNSYLVANIA, U. S. A.

BRANCHES AND AGENCIES—Marietta, Ohio; Logan, Ohio; Newark, Ohio; Shreveport, La.; Charleston, W. Va.; R. B. Moore, Bolivar, N. Y.; Frick & Lindsay Co., Bradford, Penna; and Kentucky Distributors; S. R. Shoup, 724 Board of Trade Bldg., Los Angeles, Cal.; Frick-Reid Supply Company, Tulsa, Oklahoma, and Branches, Distributors for Oklahoma, Kansas, Texas, Arkansas and Wyoming. Branch Shop, Tulsa, Oklahoma.

EXPORT REPRESENTATIVES: Oilfield Equipment Co., 30 Church St., New York City. Branch Shop: Tulsa, Okla.

# Where Rodwear *and* Corrosion make short work of Ordinary Tubing

① *Cheaper Metal*

② *Poor Wrought Iron*

***Galvanized Tubing***

**Byers Galvanized tubing has shown itself so vastly superior to other galvanized tubing in nearly every field where excessive corrosion is experienced, that it is being rapidly adopted by all those who have watched and compared its service with that of other kinds of tubing.**

Rods Nos. 1 and 2 were in service in the same location—two bottom joints—in the same well, for the same length of time. Rod No. 1 was of ordinary metal, Rod No. 2 of a poor quality wrought iron, probably "busheled" from a mixture of steel and wrought iron scrap. While both were severely attacked by corrosion, Rod No. 1 suffered nearly twice as heavy a loss as No. 2. The tubing, of ordinary quality, had to be renewed at frequent intervals.

If accounts were kept of the cost of using rods and tubing not made of genuine wrought iron, there would be a heavy deficit on the side of lower priced tubing and pump rods. Byers tubing costs a little more at first, being made of genuine wrought iron, but in the end pays out handsomely.

*Byers tubing not only resists corrosion but rod-wear. The frictional heat generated by the rods is very much smaller where wrought iron tubing is used, and crystallization and wear are correspondingly reduced.*

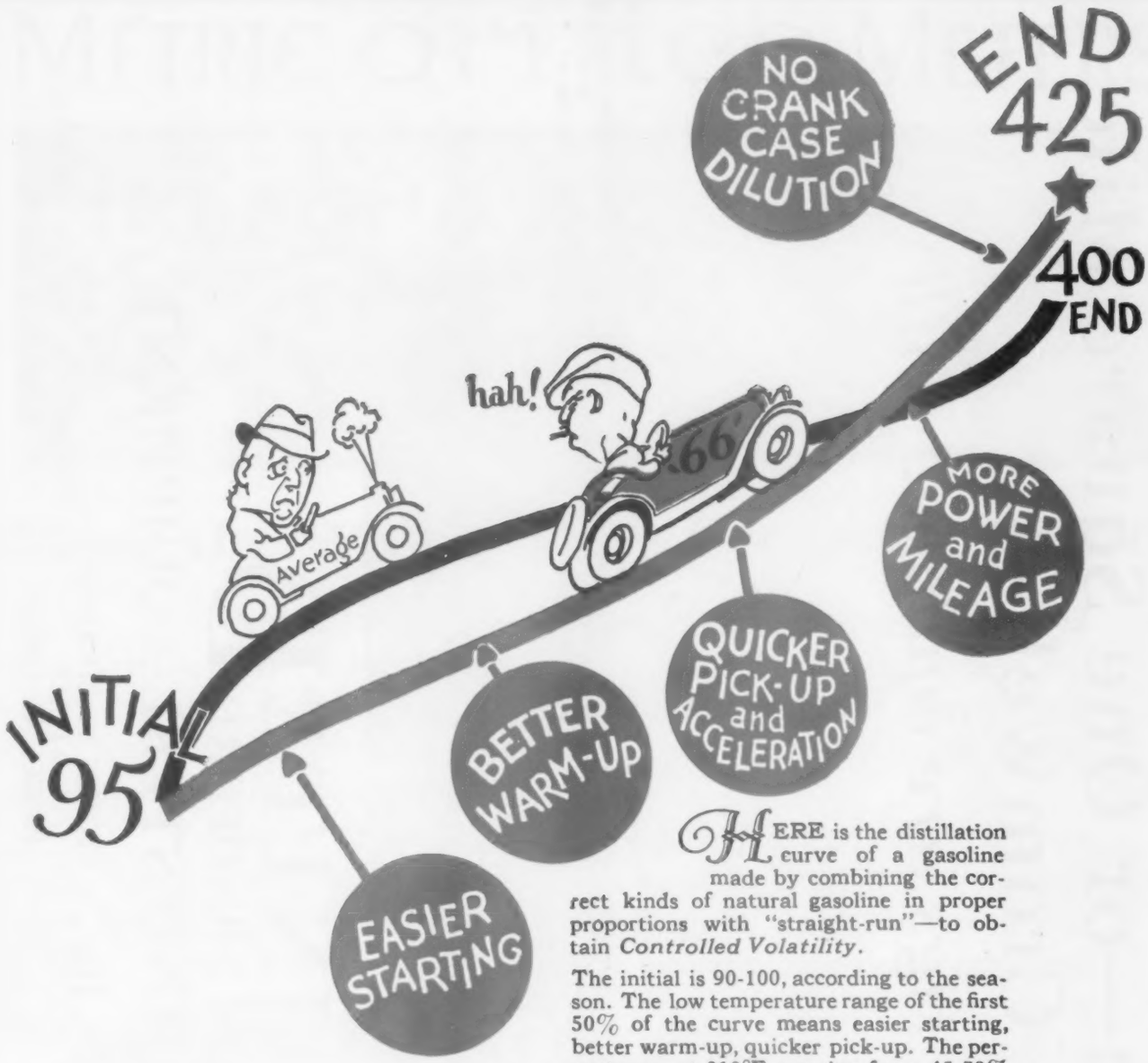
**A. M. BYERS COMPANY**
ESTABLISHED 1864 PITTSBURGH, PA.

# BYERS TUBING

## *GENUINE WROUGHT IRON*

*Distributors*

Jarecki Mfg. Co. Oil Well Supply Co.
International Supply Co.




HERE is the distillation curve of a gasoline made by combining the correct kinds of natural gasoline in proper proportions with "straight-run"—to obtain *Controlled Volatility*.

The initial is 90-100, according to the season. The low temperature range of the first 50% of the curve means easier starting, better warm-up, quicker pick-up. The per-cent over at 212°F, ranging from 45-70% according to the seasonal temperature for which the fuel is designed, means even distribution.

The last portions of the curve (with 90% over at 370°F) show the presence of proper quantities of heavy components to supply power and mileage without causing crank case dilution. The end point is 425°F. Doctor sweet, non-corrosive, good odor, 30 Saybolt color.

***Such a gasoline is "Phillips 66," a scientific product proved by actual use. Highly volatile yet stable. Unequalled at any price. An assured supply now available to the trade.***

Such, too, may be the specifications of jobbers and refiners when using the correct Phillips Natural Gasolines in making their own motor fuels. The long experience of our research department is available at all times.

## Phillips Petroleum Company

**Bartlesville, Oklahoma**

NATURAL GASOLINE FOR CONTROLLED VOLATILITY

# One Section—or One Square Mile at Cromwell—

## *Where all rigs are equipped with*

# UNITED BRADFORD

## RIG IRONS AND STEEL EQUIPMENT

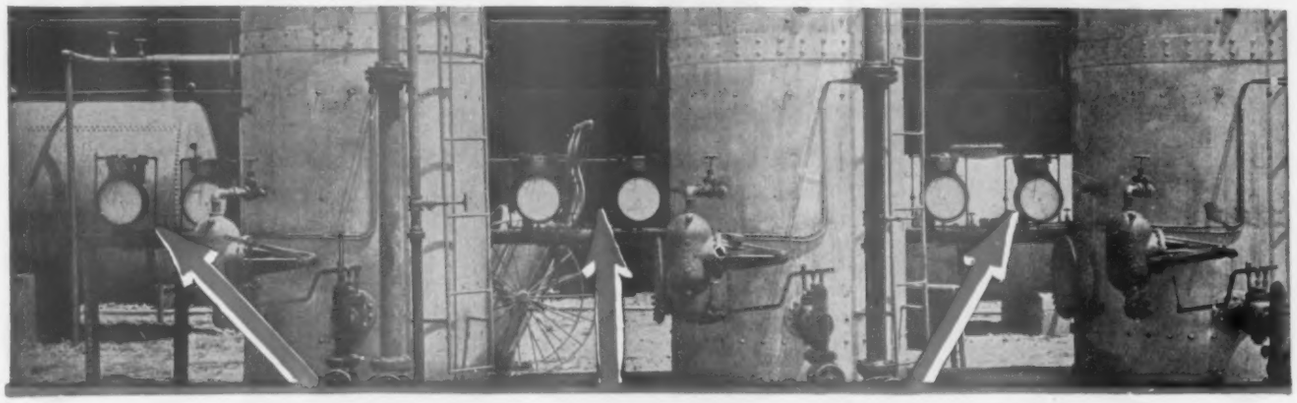
UNITED IRON WORKS, Inc.
*General Offic*
KANSAS CITY, MO.

STOCKS MAINTAINED AT ALL PRINCIPAL FIELDS

*Sales Offices:*
TULSA 114 N. ROSEDALE
DALLAS MAGNOLIA BLDG.

*Say you saw it in The OIL WEEKLY*

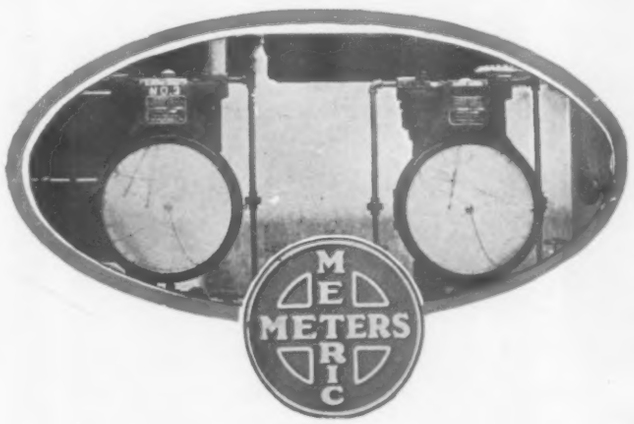
# METRIC orifice METERS



## Point the Way to New Operating Profits

Modern natural gasoline plants are, through the agency of Metric orifice Meters, continually finding avenues to the new and important profits that follow accurate measurement of every process and phase of operation. Such installations are a sure guard against the possibility of unknown inefficiencies.

Perhaps your plant may be overlooking unknown losses through lack of sufficient orifice Meter installations. It has long been known to the industry that in every major operation from gas and oil production to consumption, complete orifice meter records have been justified by increased operating profits.




We welcome opportunities to examine blue prints of your lines so that we may, without obligation on your part, recommend such installations as our experience has taught to be economical.

WESTCOTT & GREIS, Inc., *Sales Service*
Dallas - TULSA - Los Angeles

# METRIC METAL WORKS

of the American Meter Company-Inc.

ERIE - PENNSYLVANIA - U-S-A

*Say you saw it in The OIL WEEKLY*

*Unsurpassed*

# STEEL TUBULAR PRODUCTS

STANDARD SEAMLESS

CASING

TUBING

DRILL PIPE

LINE PIPE

STILL TUBES

*Sizes 2 inch to 13⅜ inch O. D.*

ETNA WELDED

STANDARD PIPE

CASING

TUBING

LARGE O. D. PIPE

LINE PIPE

DRIVE PIPE

DRILL PIPE

*Sizes ⅛ inch to 24 inch O. D.*

SINCE 1828

## SPANG, CHALFANT & CO., INC.

GENERAL OFFICES, CLARK BUILDING

PITTSBURGH, PA.

*Sales Offices:* CHICAGO, ILL. - NEW YORK, N. Y. - ST. LOUIS, MO. - DALLAS, TEXAS
PITTSBURGH, PENNA. - TULSA, OKLA. - LOS ANGELES, CALIF.

*Mills:* ETNA, PENNA. - SHARPSBURG, PENNA. - AMBRIDGE, PENNA.

*Say you saw it in The OIL WEEKLY*

KEROTEST
REGISTERED U. S. PAT. OFF.

# You Don't Have to Experiment With A Kerotest to Prove It Is Dependable

If you are among the few oil men who have never used Kerotests, you can specify Kerotest with the same confidence as thousands of regular Kerotest customers who have used them for years and know Kerotest dependability by experience.

For every Kerotest Valve is certified by an independent testing laboratory. The test certificate accompanies each valve. There, in black and white, is the certified facts of Kerotest dependability. Before you ever put it on your well you *know* that the valve will hold down the wildest well. So the next time you order valves and fittings make it Kerotest.

Any of the distributors listed below carry complete stocks of Kerotest Valves and Fittings for all purposes.

**Kerotest Manufacturing Company**

**Pittsburgh, Penna.**

*Carried in Stock and Sold by*

GRINNELL CO. OF THE PACIFIC
Los Angeles, San Francisco

NORVELL-WILDER HARDWARE CO.
Houston, Beaumont
Shreveport, Fort Worth

OIL WELL SUPPLY COMPANY
Branch Stores in all Oil Fields

*Export Distributors*

OIL WELL SUPPLY CO.
Pittsburg, New York,
Tampico, London

Manufacturers of Drilling Valves, Refinery Valves, Flow Line Valves and Heavy Duty Fittings for Oil Fields

# Timken Sweeps On!

EVERY one familiar with the industry knows how the use of Timken Bearings throughout the oil fields has been increasing phenomenally—until more Timken Bearings are being used today in the oil fields than all other anti-friction types combined!

Timken's position is indicated not alone by the *number of makers* who equip with Timkens. It is indicated not alone by the *prominence of the makers* who equip with Timkens. It is indicated not alone by the *points of application* in the machines, for there are Timkens at all of the important points in many of the leading makes. Timken's position *is* indicated by the combination of all these factors.

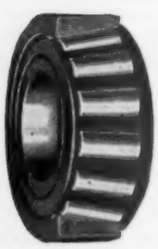
Why this remarkable trend to Timkens? Simply performance on the job, made possible by Timken *POSITIVELY ALIGNED ROLLS*, the Timken tapered principle, and Timken electric steel. Operators know what that means. Their experience with Timken-equipped machinery, over a period of years, has proved conclusively that Timken rigidity, stamina, and endurance are essential for highest production with minimum operating and depreciation costs, under rigorous oil field conditions.

Timken's position in the industry was inevitable. Every month sees more equipment makers putting Timken Bearings into crown blocks, swivels, drilling engines, draw works, rotaries, pumping units, compressors, gear units and all other types of mechanism.

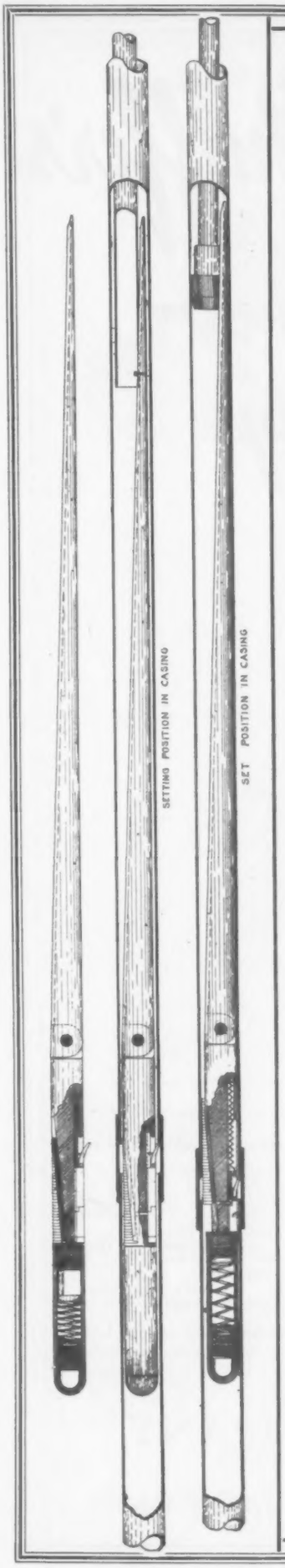
Is this commanding advance due to advertising, merchandising, salesmanship? They have helped, but only because they tell of the superiority of a superior product. Clear superiority is what has put Timken in the lead in oil operations, as in other important industries. Timken's position was inevitable. Timken has swept on to dominance!

THE TIMKEN ROLLER BEARING CO., CANTON, OHIO

**TIMKEN** *Tapered Roller* **BEARINGS**



*Say you saw it in The OIL WEEKLY*




# HARRISBURG OF TEXAS

## *Announces*

## THE NEW

## *"MADE BY KINZBACH"*

# WHIP-STOCK

FULLY PROTECTED BY U. S. PATENTS

### Positive Tripping Device

The new tripping device built into this whipstock is positive in action and safe in operation. It will not release until the Whipstock has been lowered to the proper position and then raised to the first coupling. The old style of setting or tripping did not protect the operator from having to mill out in a coupling.

### Mill-Out Between Couplings

As the Whipstock is raised the tripping device catches in the space between the two joints in the coupling and trips the SLIP, which grips the casing, immediately below the coupling. This sets the whipstock in such position that the entire taper is placed between couplings. No need to run two or three whipstocks in to get position to mill out. This WHIPSTOCK will positively permit the operator to mill out between couplings.

### Made of Cast Steel

Carefully designed and built by the most modern shop practices, this Whipstock offers the best in workmanship and materials. It is made of Cast Steel, annealed to prevent fracture. This material is of practically the same analysis as the casing, which assures longer life to milling tools.

*"MADE BY KINZBACH"*

**The above statement signifies that this article is manufactured by The Kinzbach Tool Company, under the personal supervision of Frank Kinzbach.**

## NOTE ITS SIMPLICITY

The simplicity and completeness of this Whipstock are shown by the three cuts at the left. One shows the Whipstock. The second shows the whipstock ready for tripping. The third shows the Whipstock in position for a cut with the slip gripping the casing so that the entire taper is placed between couplings.

*Write for further information. Prompt attention given all inquiries. We welcome the opportunity to supply more detailed information and give demonstrations on all tools.*

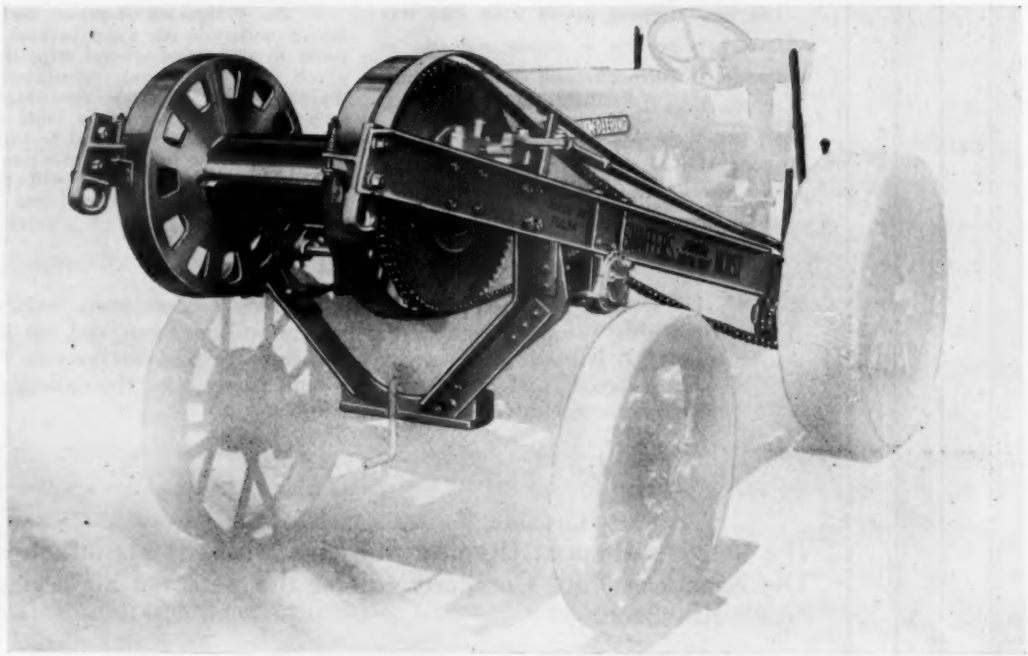
# HARRISBURG
## PIPE & PIPE BENDING CO. OF TEXAS

SAWYER & WINTER STS. HOUSTON, TEXAS

# Announcing Shaffer's

## JUNIOR BEAR CAT HOIST

## for the Oil Industry



*Mounted on McCormick-Deering 10-20 Tractor*

Built to meet the demands of Operators of shallow production, the Junior BEAR CAT Hoist will service wells to a depth of 2500 feet, using single line direct over Crown Sheave for Rods and double line for Tubing. Deeper wells may be serviced by the use of additional lines. Eliminates the use of Bull Wheels and Floor Blocks.

Powered by the 10-20 McCormick-Deering Industrial Tractor, Manufactured by the International Harvester Company, gives three speeds forward and one reverse. Road speed of 2, 4 and 10 miles per hour.

CABLE DRUM CAPACITIES

| 7/16 inch | ½ inch | 9/16 inch | ⅝ inch |
|---|---|---|---|
| 4450 feet | 3350 feet | 2625 feet | 2150 feet |

LINE SPEEDS

| | Low | Second | High |
|---|---|---|---|
| FEET PER MINUTE | 76 feet | 148 feet | 375 feet |

SAFE LOAD CAPACITIES

| | Low | Second | High |
|---|---|---|---|
| SINGLE LINE | 8,700 pounds | 4,475 pounds | 1,750 pounds |

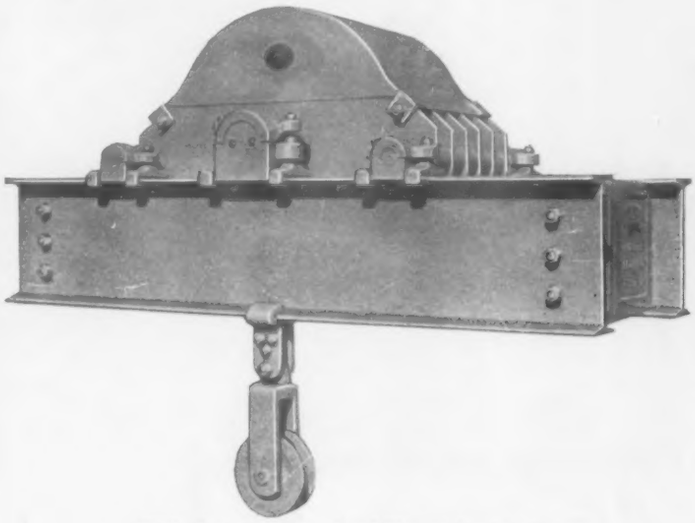
An Economical and Dependable Hoisting Unit, priced conservatively. Write for details and price.

*Manufactured under the Haubert Patents by*

## THE SHAFFER SPECIALTY COMPANY

115 SOUTH DENVER
TULSA, OKLAHOMA
P. O. Box 1434 Telephone 7271

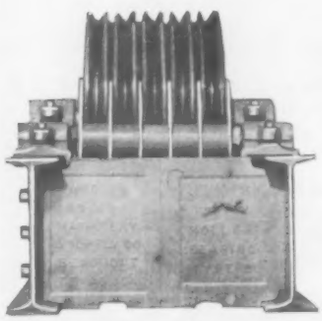
# TRY THE NEW



*Built for strength, durability and compactness*

# BOYKIN CROWN BLOCK

## (TYPE D)



*Equipped with BOYKIN Patented Adjustable features*

## Companion Product to the, Now Famous, Boykin Travelling Block

The new "Type D" Crown Block is roller bearing throughout, self-oiling, perfectly balanced and reduces friction to a minimum. It is equipped with the BOYKIN patented adjustable features, and is built for strength, durability and compactness —TRY IT.

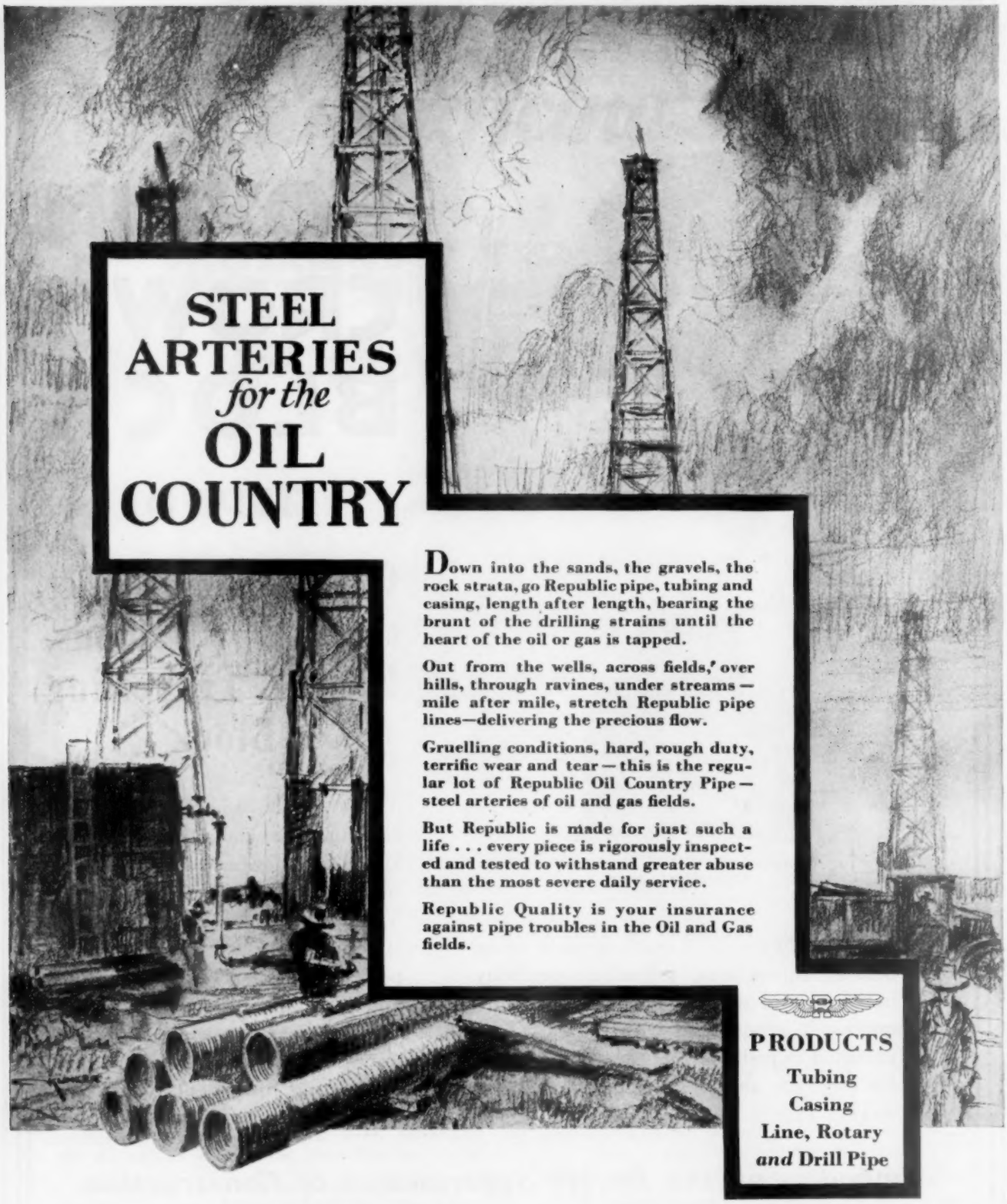
Those of you who have used the Boykin "Greyhound" Travelling Block know what to expect from our new "Type D" Crown Block. You can depend on it to render superlative service — to maintain perfect alignment between crown and travelling blocks—to be easy on your lines—to speed up operations—to take the strain off your derrick and equipment, and to perform perfectly at all times.

***Embodies all the Boykin Superiorities of Construction***

# BOYKIN MACHINERY & SUPPLY CO.

*Manufacturers of the Famous "Greyhound" Rotary Drawworks and Blocks*

**BEAUMONT** **TEXAS**



# STEEL ARTERIES *for the* OIL COUNTRY

Down into the sands, the gravels, the rock strata, go Republic pipe, tubing and casing, length after length, bearing the brunt of the drilling strains until the heart of the oil or gas is tapped.

Out from the wells, across fields, over hills, through ravines, under streams — mile after mile, stretch Republic pipe lines—delivering the precious flow.

Gruelling conditions, hard, rough duty, terrific wear and tear — this is the regular lot of Republic Oil Country Pipe — steel arteries of oil and gas fields.

But Republic is made for just such a life . . . every piece is rigorously inspected and tested to withstand greater abuse than the most severe daily service.

Republic Quality is your insurance against pipe troubles in the Oil and Gas fields.

**PRODUCTS**

Tubing
Casing
Line, Rotary
*and* Drill Pipe

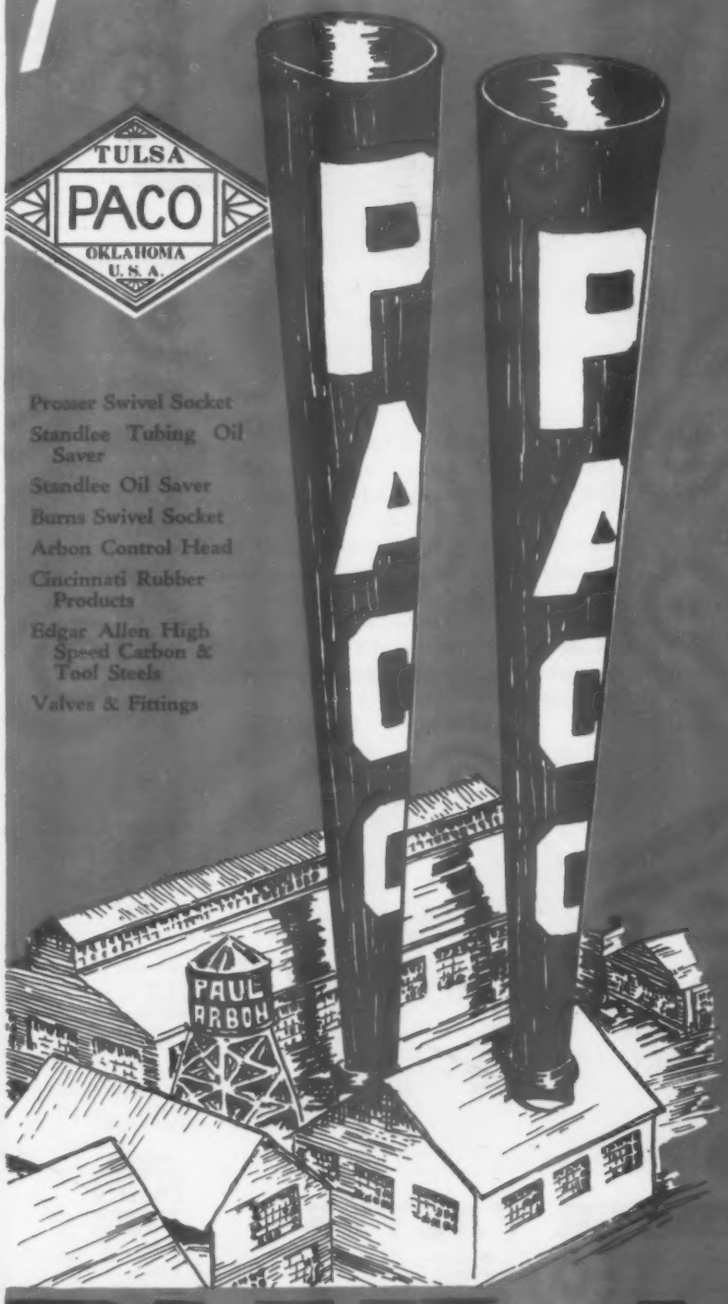
# REPUBLIC
## IRON & STEEL CO. YOUNGSTOWN O.
# PIPE & CASING

*Branch Offices*

Birmingham, Boston, Buffalo, Chicago, Cincinnati, Cleveland, Dallas, Denver, Detroit, El Paso, New York, Philadelphia, Pittsburgh, San Francisco, St. Louis

*Say you saw it in The OIL WEEKLY*

# *packed with quality*




Prosser Swivel Socket
Standlee Tubing Oil Saver
Standlee Oil Saver
Burns Swivel Socket
Arbon Control Head
Cincinnati Rubber Products
Edgar Allen High Speed Carbon & Tool Steels
Valves & Fittings

HIGH above the ground, painted to be visible for a great distance, appear the four letters P-A-C-O identifying the shops of Paul Arbon & Company . . . on every piece of oil field equipment leaving these shops, appear the same letters on the trade mark familiar in every oil field throughout the world.

Back of these four letters is the history of a Company that from its founding was dedicated to the work of experimenting and improving upon methods of producing oil.

How well the work was done is graphically illustrated in the case of the Prosser Swivel Socket, a device pioneered by this Company that today is used throughout the world on practically every string of cable tools being operated with wire line.

Paul Arbon & Company has pioneered. The past years have seen their introduction of many valuable pieces of oil field equipment. Paul Arbon & Company will continue to pioneer, ever aware of changing conditions and the march of progress. Arbon engineers are today planning and experimenting upon the tools of tomorrow.

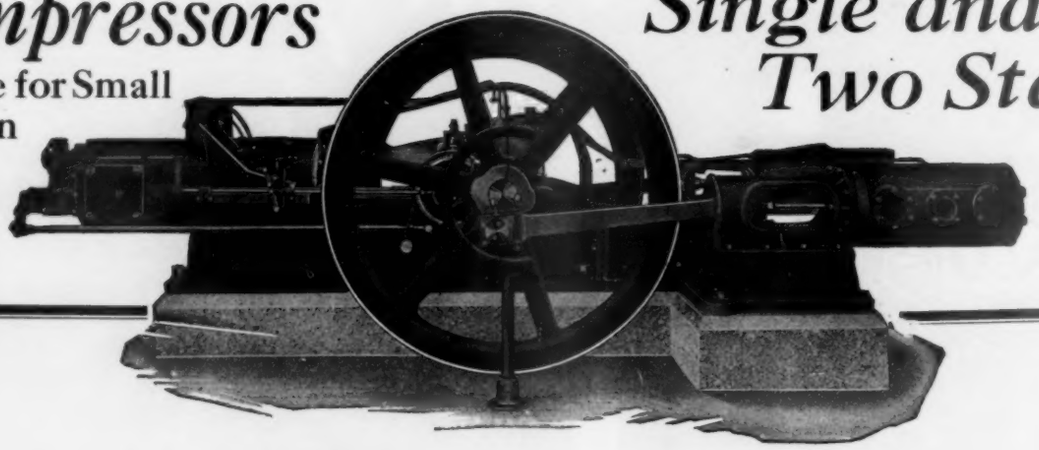
# PAUL ARBON

TULSA *& Company* OKLAHOMA

# DIRECT DRIVEN

## *Compressors* *Single and Two Stage*

**Suitable for Small Leases in 40, 50, 60, 75 and 90 H. P.**



THE simplicity and accessibility of these Compressors and Vacuum Pumps have contributed much to their popularity in the field. The ease with which they are operated and their dependability, make them mighty convenient and efficient plants.

One man (usually the pumper) can run these plants, as it is only necessary to fill the lubricator once a day.

All adjustments can be made with ordinary wrenches—and valves removed for inspection without changing pipe connections, etc.

Fresh oil is pumped to each bearing as needed. The Main Bearings are renewable Phosphor Bronze, with wedge adjustment.

These plants can be arranged with vacuum cylinder on one side and compressor cylinder on the opposite side, to circulate gas.

Made in 40, 50, 60, 75 and 90 H. P. suitable for pressure of fifty pounds to four hundred pounds.

All these powers are exclusively—

*(Patented June 29, 1916*

**PATTIN PRODUCTS**

Gas Engines
Pumping Powers
Water Pumps
Air and Gas Compressors
Vacuum Pumps
Oil Country Boilers
Torpedo Reels and Clamps
Steel Storage Tanks
High Pressure Tanks
Howe Casing Heads
Shackle Irons

## *Equipped With* MEISTER VALVES

Meister Valves are made of vanadium steel and weigh less than two ounces each. On account of their lightness they are absolutely noiseless and will never require grinding.
Seats are made separate from cylinder and are readily accessible for cleaning or repairing, without removing a single connection. As they are free from troublesome springs, they can be used in any position. Here are some features of Meister Valves.

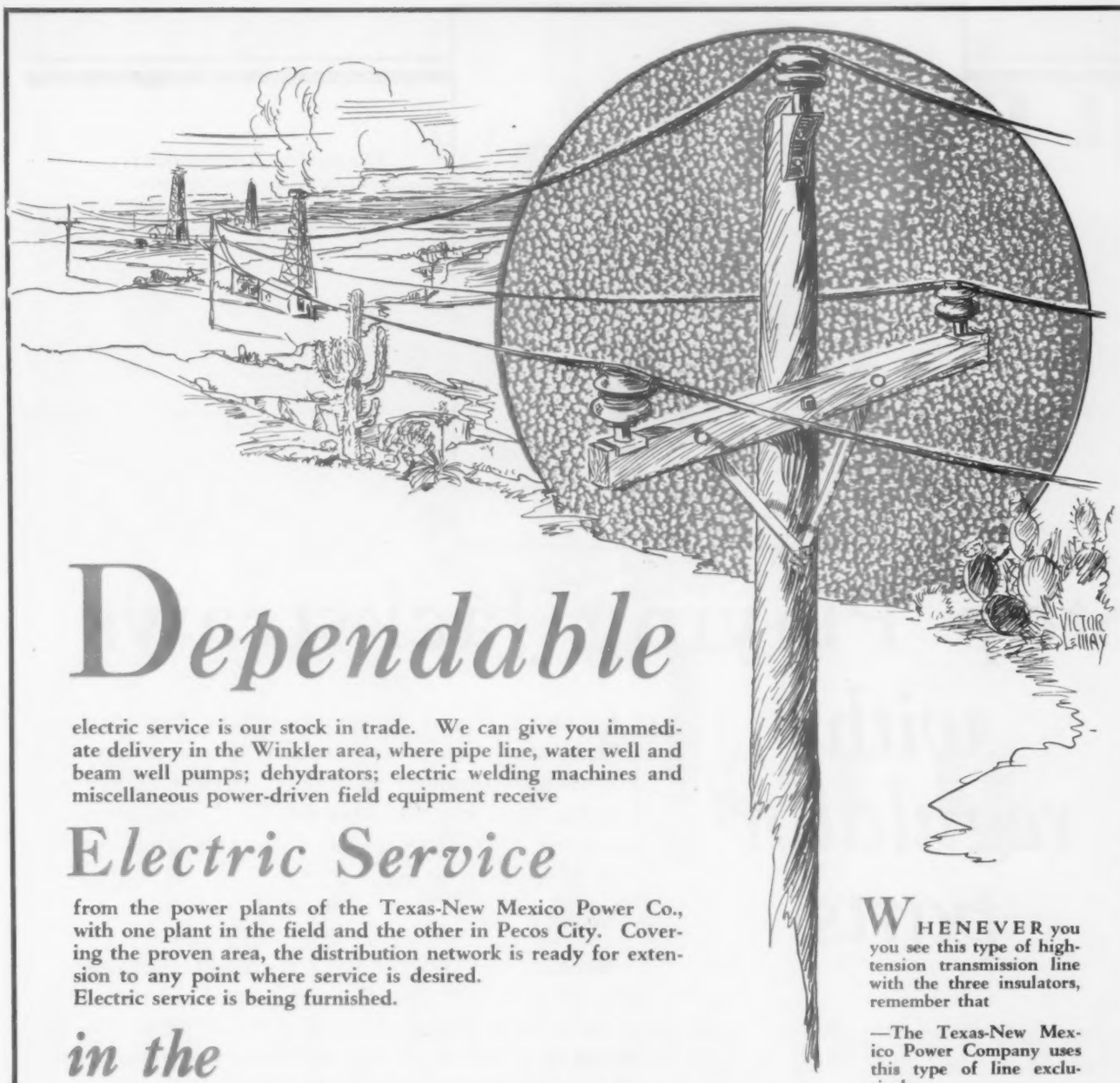
1—Improved mechanical and volumetric efficiency over the old style poppet valve.
2—Elimination of lubrication of any kind for the valve itself.
3—Silent operation at the highest piston speeds.
4—Valves never require regrinding.
5—Elimination of troublesome springs.
6—Simplification of air end, owing to the absence of all complicated valve operatng mechanism.

*Write for prices, or inquire of any of our representatives.*

## THE PATTIN BROTHERS COMPANY

### MARIETTA, OHIO

| Tulsa, Okla. | Nowata, Okla. | Wichita Falls, Texas | Putnam, Texas | Bradford, Pa. |
|---|---|---|---|---|
| A. S. Dunnington | J. Barnes | J. W. Noland | Putnam Supply Co. | Blaisdell Machinery Co. |




# *Dependable*

electric service is our stock in trade. We can give you immediate delivery in the Winkler area, where pipe line, water well and beam well pumps; dehydrators; electric welding machines and miscellaneous power-driven field equipment receive

## *Electric Service*

from the power plants of the Texas-New Mexico Power Co., with one plant in the field and the other in Pecos City. Covering the proven area, the distribution network is ready for extension to any point where service is desired.
Electric service is being furnished.

## *in the*

towns of Kermit and Tulsa and in Jal, New Mexico, providing comforts and conveniences providing a means to better living and more prosperity to the homes and industries of these towns.
Born and reared here, we will keep on making our home in the

WHENEVER you you see this type of high-tension transmission line with the three insulators, remember that

—The Texas-New Mexico Power Company uses this type of line exclusively.

—that this type of line is a symbol of dependable service.

# *Winkler and Lea County Field*

TEXAS
NEW MEXICO
POWER
COMPANY

The Oxweld R-27 regulator is not a nozzle type regulator. For this reason it has exceptional flow capacity and will function properly without freezing.

# Stop Playing Jackstraws *with regulator parts*

A LARGE steel company employed two men to keep their several hundred pieces of oxy-acetylene equipment in repair. Recently they standardized on the Oxweld R-27 regulator. Now one man alone is able to handle what repair work is necessary.

Why?

Because the Oxweld R-27 regulator contains only 23 parts. It does the same work older regulators did with thirty-three or more parts. In fact it does it better. Any mechanic can remove all the R-27 parts—make a thorough inspection, replacing a worn valve seat, if necessary—and reassemble—all within a very few minutes and without special tools.

This unusual simplicity in design saves hours of repair time for more productive work, and is an important factor in the most economical operation of oxy-acetylene equipment.

OXWELD ACETYLENE COMPANY

UCC

*Unit of Union Carbide and Carbon Corporation*

NEW YORK CITY, 30 E. 42d St.

CHICAGO, Peoples Gas Bldg. SAN FRANCISCO, Adam Grant Bldg

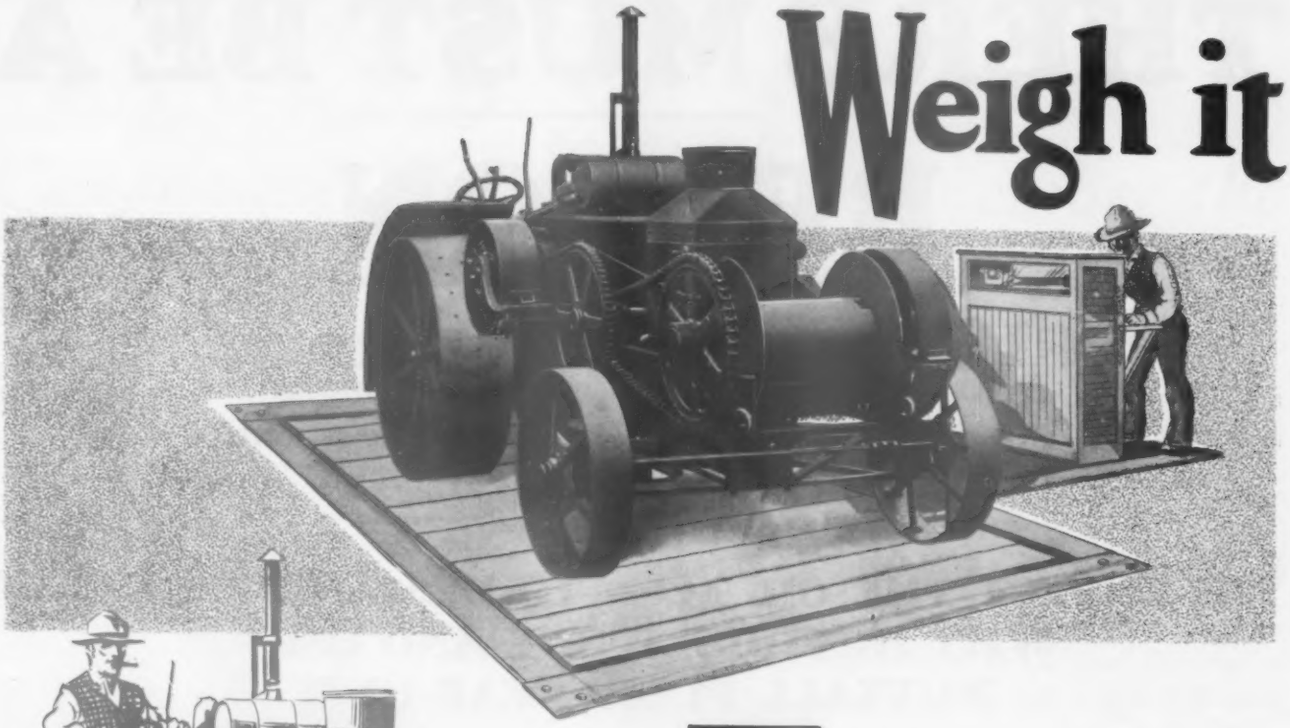
STOCKS IN 41 CITIES

IN CANADA, Dominion Oxygen Company, Ltd., Toronto

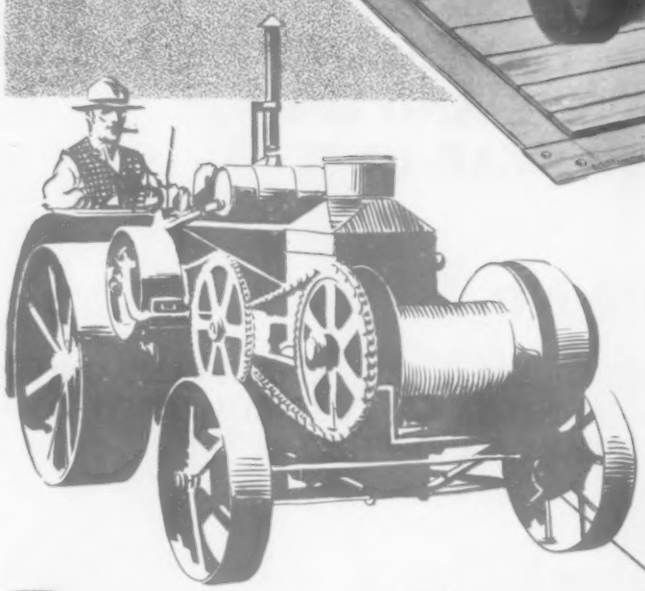
Oxweld

WELDING AND CUTTING APPARATUS

# Weigh it



# Test it



# Buy it by the pound

*You get more horse-power pounds per foot of line travel for your dollars in the WINCH and winch tractor than in any other tractor built.*

RUMELY OILPULL TRACTOR

**PARTIAL LIST OF COMPANIES USING OILPULL WINCH TRACTORS**

Barnsdall Oil Co., Carter Oil Co., Continental Oil Co., Devonian Oil Co., Empire Oil and Refining Co., F. W. Merrick, Oil Producer, Magnolia Petroleum Co., McMan Oil and Gas Co., Prairie Oil and Gas Co., Phillips Petroleum Co., Roxana Petroleum Corp., Skelly Oil Co., Shaffer Oil and Refining Co., Sun Oil Co., The Texas Co., L. H. Wentz Oil Division, H. F. Wilcox Oil and Gas Co., The Pure Oil Co.

*—Send all inquiries and orders to* - - -

# FRED E. COOPER

Special Rumely Representative and Developer of Oil Field Machinery
18 So. Madison,
Tulsa, Oklahoma

# THERE MUST BE A REASON

*Before we buy materials for use in making the Nuttall products, we must see a real reason why we should buy them.*

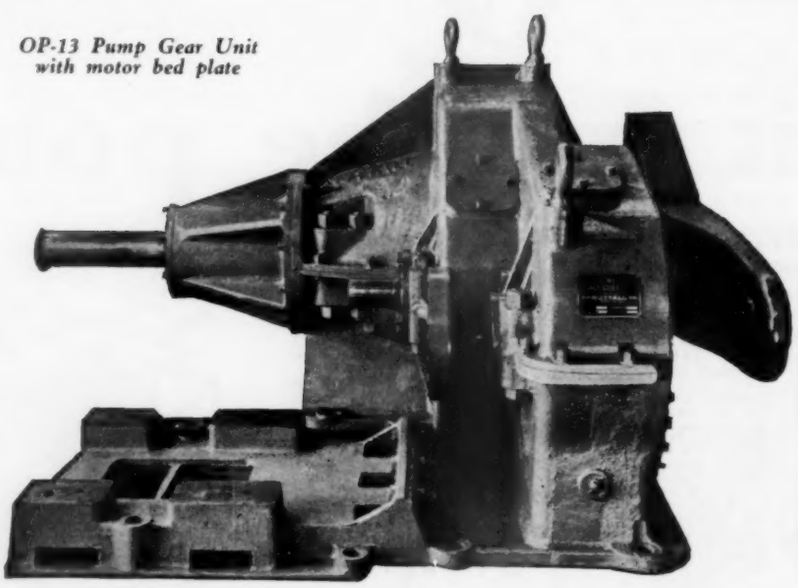
## WE EXPECT THE OIL MAN TO DEMAND A REASON WHY HE SHOULD BUY AND USE A NUTTALL PUMP GEAR-UNIT

## REASON No. 1

RECOVERY UNIT COSTS CAN BE REDUCED BECAUSE THE NUTTALL UNIT OPERATES ON PRACTICALLY A ZERO MAINTENANCE COST COMPARED TO 30% EFFICIENCY FOR THE ORDINARY BAND-WHEEL SET-UP.

WRITE FOR OUR BULLETIN NO. 62 IT GIVES MANY OTHER REASONS AS WELL AS OTHER VALUABLE DATA

*OP-13 Pump Gear Unit with motor bed plate*



"Further information can be secured from any office or branch of the Oil Well Supply Company, or from the District offices of the Westinghouse Electric and Manufacturing Company."

**Oilwell Supply Co.**
*Authorized Distributor*

# Westinghouse-Nuttall

**MILLER COMBINATION BAILER AND SAND PUMP—*Speed With Certainty***

# MILLER

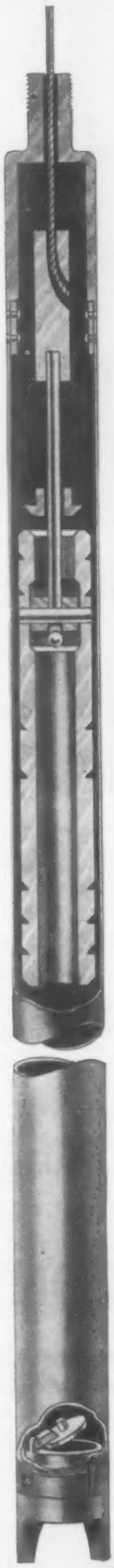
## *Combination Bailer & Sand Pump*

The only pump made with the sand line running through bail giving more clearance. The Plunger is made 18 inches long with eight water courses permitting the fluid to seal valve on top of the plunger, thus creating a greater suction than in any other sand pump made.

*Bailer Bottom*

Made in 3½", 4", 4¼", 5", 5½", 7" and 9" sizes with any length up to 30 feet. Furnished with either or all of the following bottoms; Sand Pump Bottom for cleaning out, Bailer Bottom drilling, and for Chisel or Star Bottom (not illustrated) for cleaning out where tools are not used.

*Chisel Bottom*



# *Remember the name* MILLER

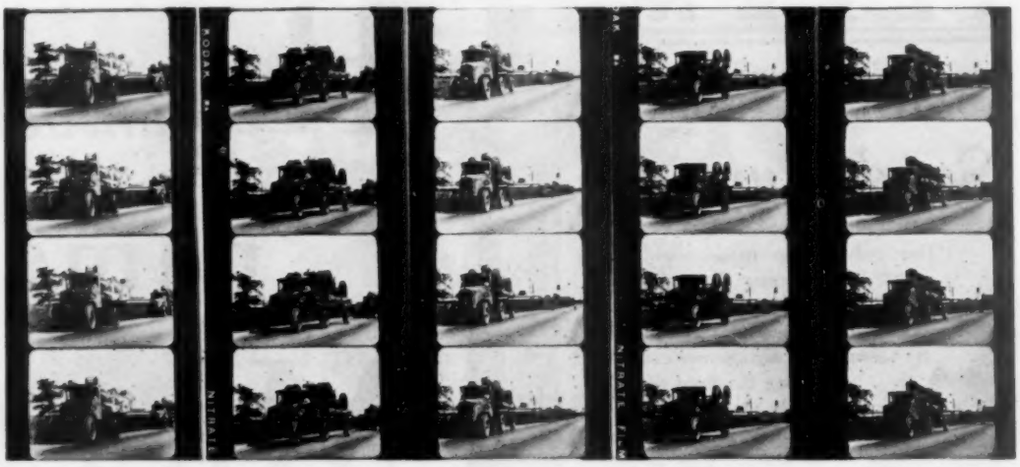
Only in the Miller, do you get the winning combination of the best features of both a good bailer and unexcelled sand pump. Combined in one tool the Miller Combination Bailer and Sand Pump is the greatest step forward in time saving and greater operating efficiency. Made of National Seamless Tubing, the Miller is built throughout of steel and uses no leather washers to give constant trouble and layups with consequent shutdown expense. Remember the name and accept no substitutes because only in the Miller will you find the combined features that have made it the choice of hundreds of Producers and the Leading Companies in the Industry.

*Send for circulars and price list. The Miller Combination Bailer & Sand Pump is sold through the leading supply stores or direct from the factory.*

*Manufactured only by the*

**Miller Combination Bailer & Pump Co.**
SAPULPA, OKLAHOMA

# MILLER



# Oklahoma Moves Temporarily Into Kansas

A CONTRACT to string, weld, lay, paint, and backfill one hundred and fifty miles of 20″ gas line in Kansas has recently been let to the Oklahoma Contracting Company.

Being especially equipped to construct lines of this size we expect to complete this entire contract by October first. This prediction is based on recent records established by this company of 86.7 miles of 22″ coupling pipe with one gang in 80 working days and 99 miles of 10″ welded pipe in 60 working days.

A feature of this line will be the alternate welding and coupling method of joining. One joint will be welded, the next coupled, the next welded, and so on throughout the entire length of the line.

## We Do Our Own Welding

The Oklahoma Contracting Company, with its own organization, will handle all welding on this job. This complete service is made possible through our adequate equipment and past experience.

**Welded ~ Coupling ~ Screw Pipe**

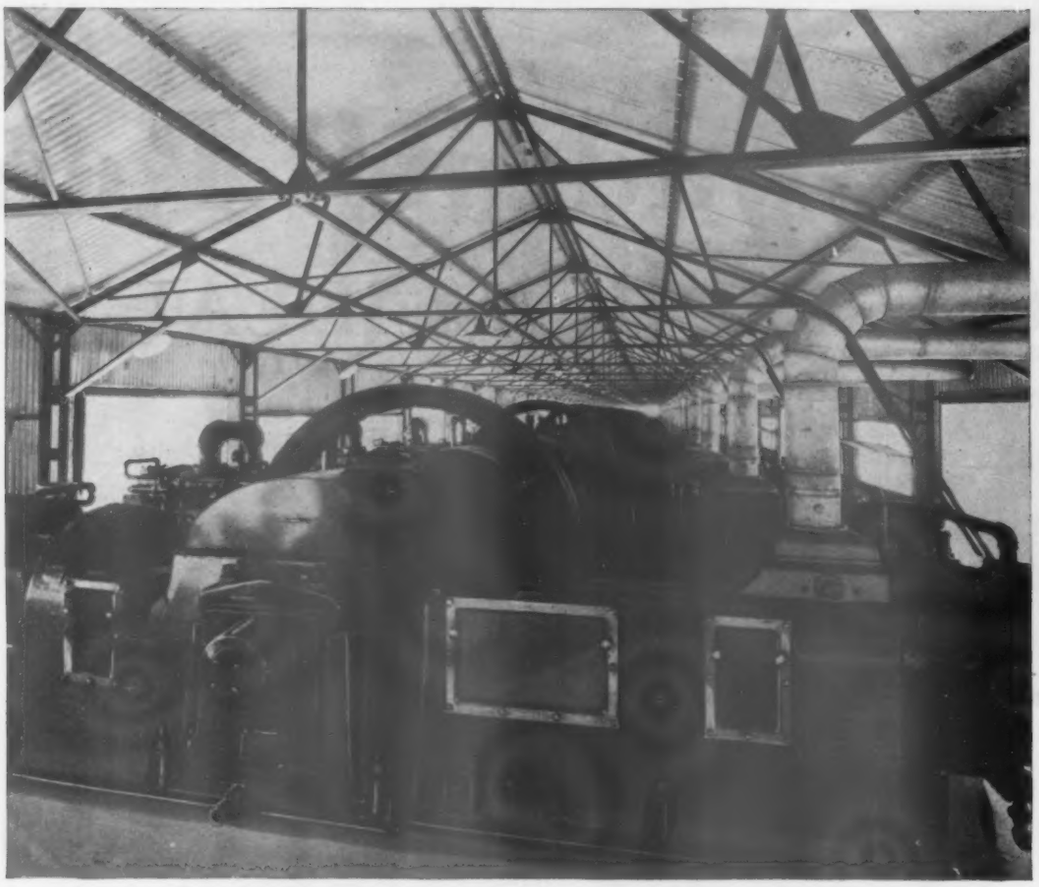
**OKLAHOMA CONTRACTING CO.**

T-R-JONES-*President* H-A-GUMP-*Sec'y.-Treas.*

**THE WELDALINE CO.**

C-J-MURRAY

**TULSA** **DALLAS**



The Reed Air-Lift plant of the Pure Oil Co., powered with 24—175 H. P. Bessemer Type Ten Compressors, is probably the world's largest Air-Lift plant. Bessemers have consistently demonstrated their remarkable performability for the Pure Oil Co., as they have for most of the other leaders of the industry.

# A Criterion of Value

THE only accurate measure of Bessemer Compressor value is Bessemer performance. The fact that Bessemers are continuously re-ordered by so many of the oil industry's largest compressor users is the most convincing evidence we can offer of their in-built dollar value.

Shrewd buyers don't throw good money after bad—but they *do* standardize on Bessemers.

THE BESSEMER GAS ENGINE COMPANY
62 York Street ∴ ∴ ∴ Grove City, Pa.

# BESSEMER

*Say you saw it in The OIL WEEKLY*

# "Daddie" Reese

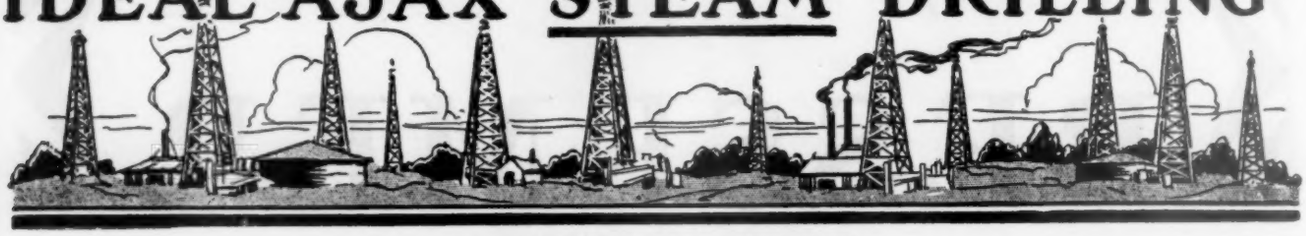
## *New* IDEAL-AJAX

*"Daddie" Reese of Oklahoma*

THE first engine equipped with anti-friction bearings was an IDEAL-AJAX placed in the Oklahoma field Aug. 5, 1927. After a four months' work-out, the engine was shipped back to the factory and taken down to determine its true condition. As a result, these three features have been found to assure new savings in time and cost of drilling:

**Heavy Timken Roller Bearings (In the 12x12 Ajax Twin, totally enclosed).**
**Cylinders with Balanced Pistol Valves.**
**Steam Separator with Automatic Trap.**

## IDEAL-AJAX STEAM DRILLING

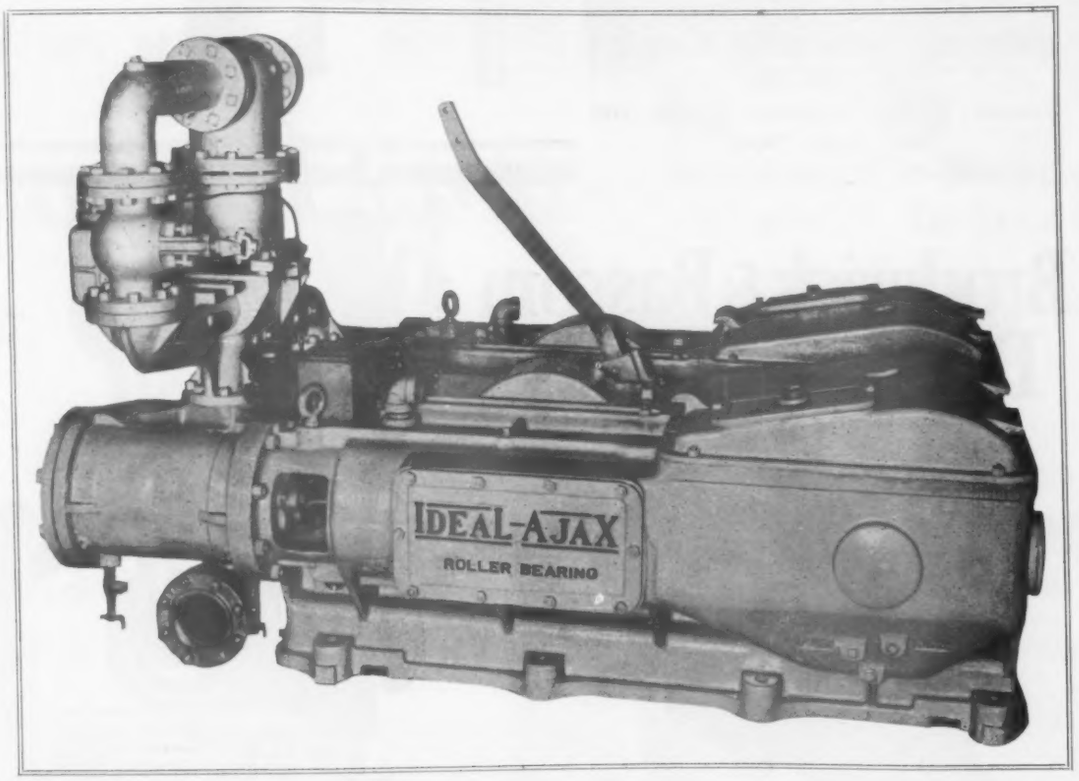


*Say you saw it in The OIL WEEKLY*

# Orders Three More •••

## *Engines the Day the First Engine Arrived*

***Ask the National Supply Co. man for complete information in regard to the new performance this engine is giving drillers.***




*Made by*

AJAX IRON WORKS

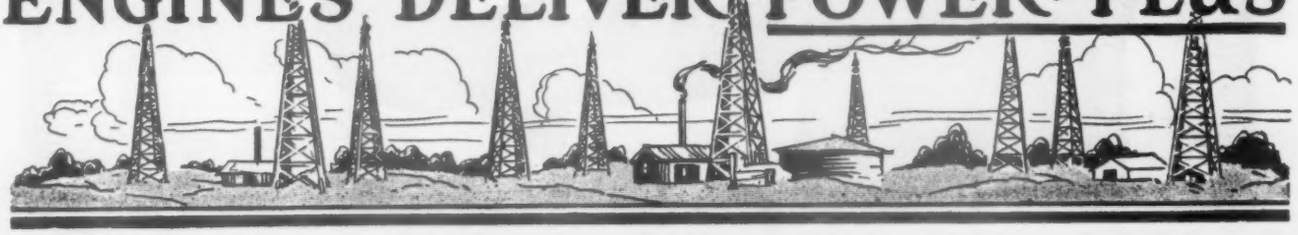
Corry, Pa.

*Distributed by*

THE NATIONAL SUPPLY COMPANIES

In every oil field

**ENGINES DELIVER POWER-PLUS**



*Say you saw it in The OIL WEEKLY*

# Feel the Spring

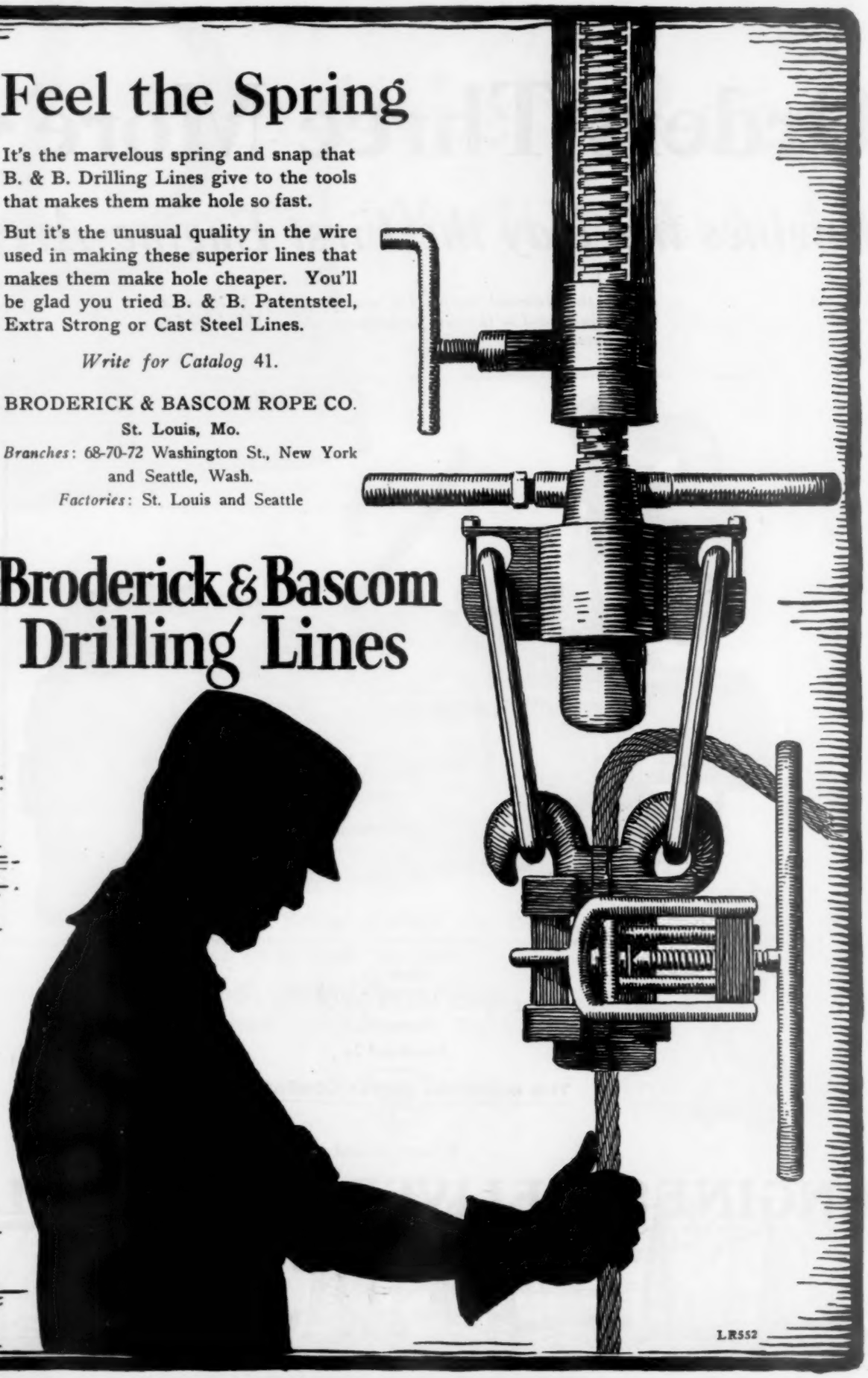
**It's the marvelous spring and snap that B. & B. Drilling Lines give to the tools that makes them make hole so fast.**

**But it's the unusual quality in the wire used in making these superior lines that makes them make hole cheaper. You'll be glad you tried B. & B. Patentsteel, Extra Strong or Cast Steel Lines.**

*Write for Catalog* 41.

BRODERICK & BASCOM ROPE CO.
St. Louis, Mo.
*Branches*: 68-70-72 Washington St., New York and Seattle, Wash.
*Factories*: St. Louis and Seattle

# Broderick & Bascom Drilling Lines




*Say you saw it in The OIL WEEKLY*

# Does Your Driller Wear a Horseshoe Around His Neck?

*—OR do you provide him with a*

# Martin-Loomis Automatic Recording Weight Indicator?

TO DEPEND upon luck and human judgment may be sportsmanlike, but to drill by the constant guidance of a Martin-Loomis Weight Indicator is sure to be faster and more profitable. That's why hundreds of operators in all parts of the world are using Martin-Loomis equipment 100% on all their drilling rigs. Let us tell you what the Weight Indicator can also do for you.

## MARTIN-LOOMIS CORPORATION

**568 East Willow Street** **Long Beach, California, U. S. A.**

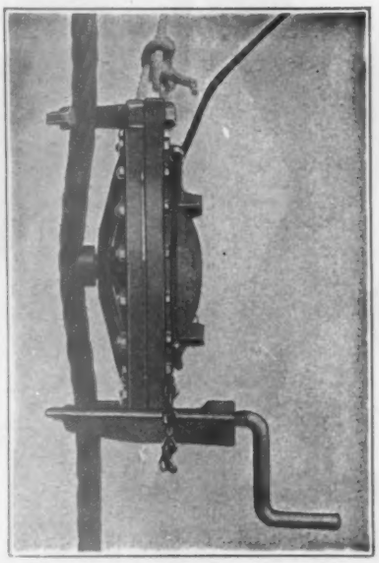
*Foreign Distributors*
OIL WELL SUPPLY COMPANY
PITTSBURGH, PA.

*AND THROUGH ALL SUPPLY STORES*

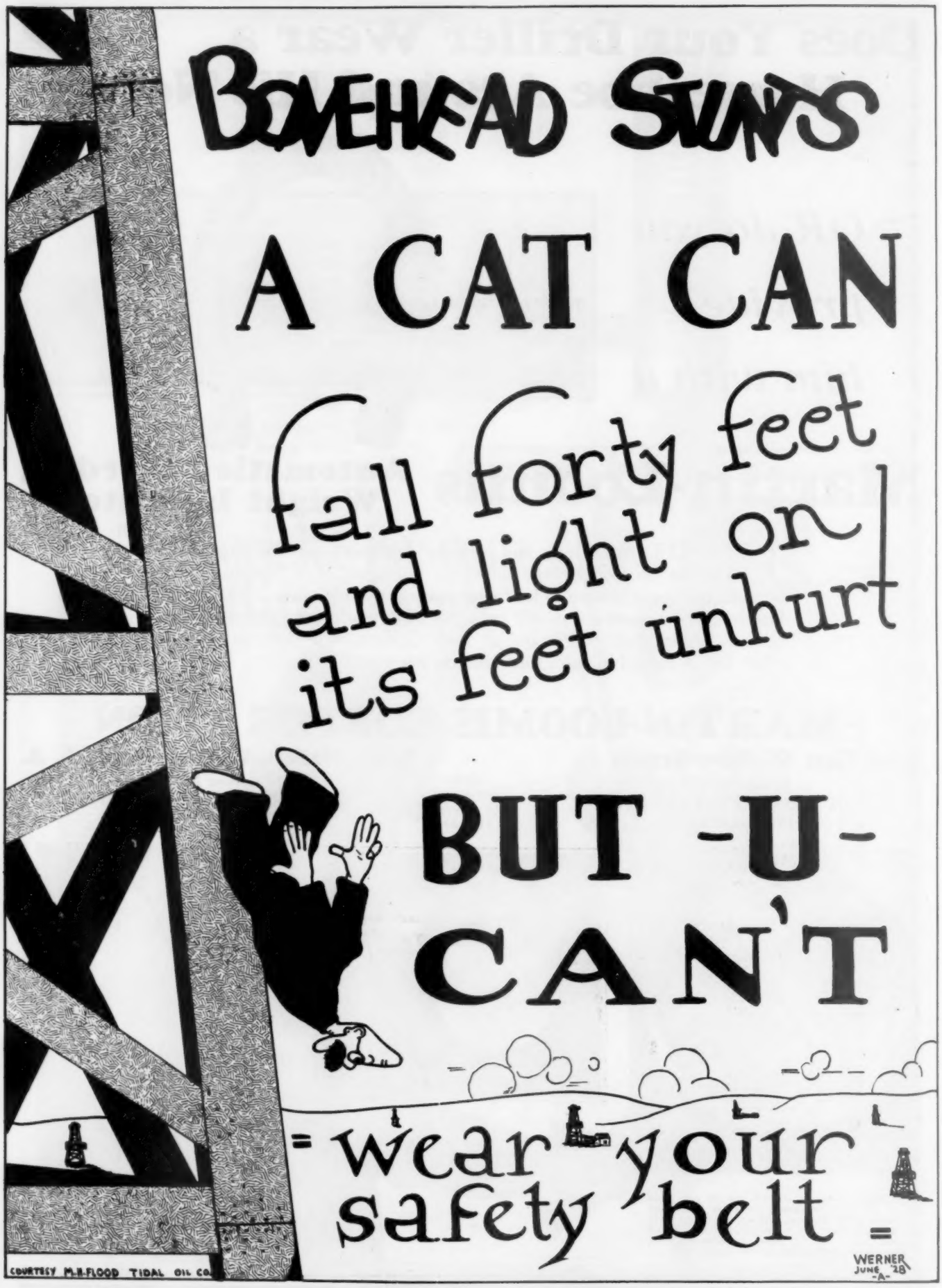
*Mid-Continent Distributors*
REED ROLLER BIT COMPANY
HOUSTON, TEXAS

*Weight gauge on derrick girt in easy view of driller. This gauge serves as a constant guide while drilling, fishing, or taking core, and eliminates the necessity of depending on the "feel" of the brake to determine the weight on bottom or on the hook.*

*Recording instrument in belt house which writes a permanent graphic record of all operations at the drilling well throughout each 24-hour day.*



*Bronze case containing rubber diaphragm attached to deadline.*




*(Copy of Poster issued by Safety Division, Mid-Continent Oil and Gas Association)*

# Re-organized Safety Work in the Oil Fields Proving Successful

The motion picture Safety program of the Mid-Continent Oil and Gas Association is now being distributed through the Association's Field Safety Committees, composed of the representatives of the various member companies.

Six programs are being shown simultaneously in as many widely separated points throughout the territory and the pictures are now being shown by the local Committeemen who operate under instructions from the Association Headquarters. They receive the equipment, set it up, run the picture and then ship the films and equipment on to the next Committee. This allows the release of a new program every sixty days instead of every six months as in the past and eliminates the cost of traveling motion picture operators.

The men in the oil fields are taking a keen interest in the development of the motion picture program, the foremen's meetings and the training of First Aid Teams. This should have a beneficial effect in reducing the accident cost in this hazardous industry.

The attendance at the meetings is running from 100 to 300 employees and many of them bring their families with them. The head office at Tulsa is receiving many letters of appreciation from the men in the field, among which may be quoted comment such as the following:

*"I want to thank you personally for the privilege of showing these pictures and wish to assure you that we will call on you in the near future for the privilege of showing some more safety pictures to our men."*

*"We wish to express our appreciation for this service and feel that this is a method of keeping before the employees the thought of Safety and educating them along this line."*

Greater co-operation by oil company executives will make the Safety Department a good dividend-payer for the oil industry of the Mid-Continent Field. Inquiry into the details of the co-operative Safety Program and its operation is solicited by the Association.

## MID-CONTINENT OIL & GAS ASSOCIATION

**Tulsa Building**

**TULSA, OKLAHOMA**

*(This Space Contributed by a Member of the Association)*

# BIG LAKE OIL COMPANY

*Producers of*

Reagan County High Grade

CRUDE OIL

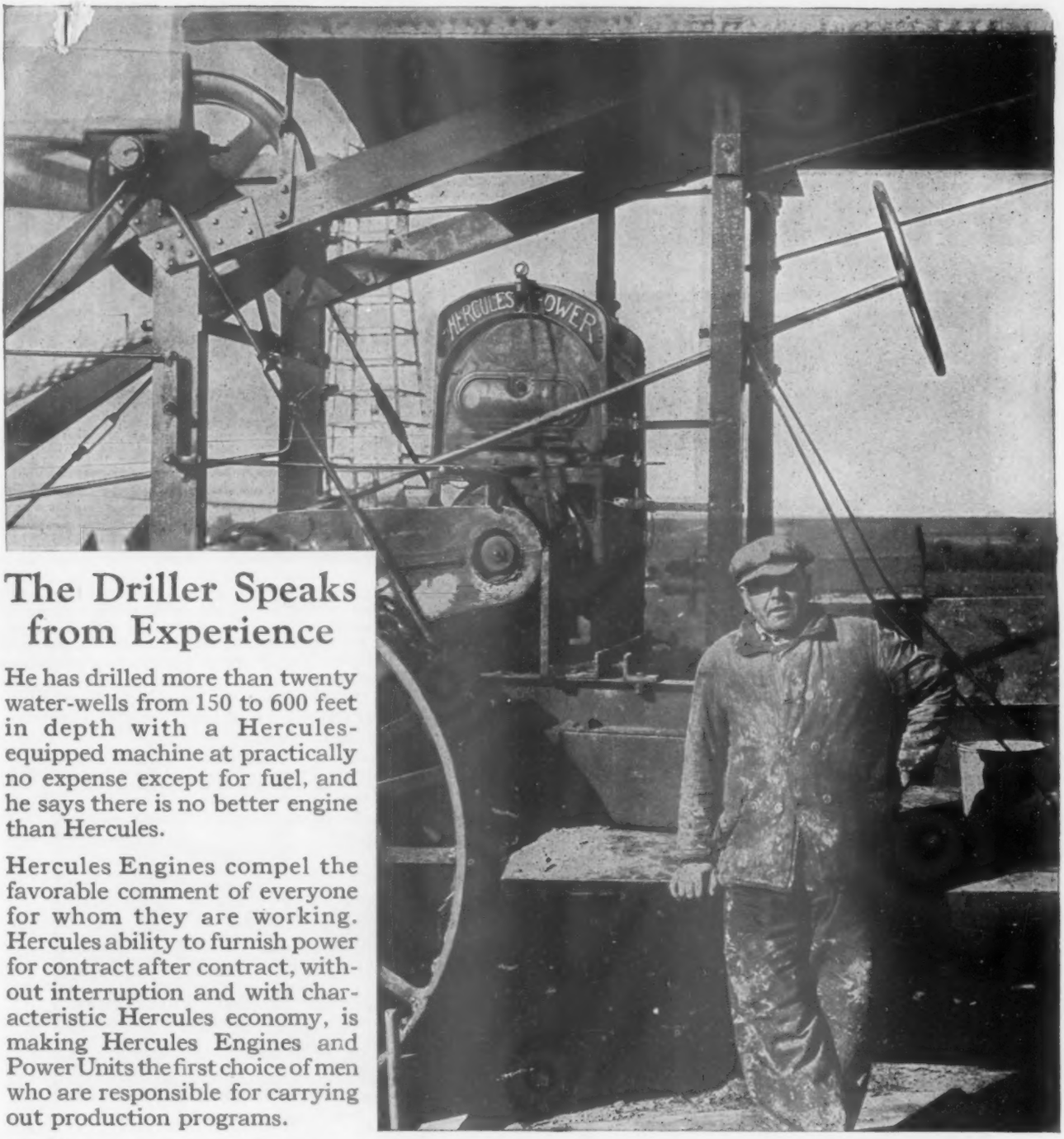
and

NATURAL GASOLINE

*Executive Offices*
PITTSBURGH, PENNA.

*Field Offices*
TEXON, TEXAS

*Say you saw it in The OIL WEEKLY*




## The Driller Speaks from Experience

He has drilled more than twenty water-wells from 150 to 600 feet in depth with a Hercules-equipped machine at practically no expense except for fuel, and he says there is no better engine than Hercules.

Hercules Engines compel the favorable comment of everyone for whom they are working. Hercules ability to furnish power for contract after contract, without interruption and with characteristic Hercules economy, is making Hercules Engines and Power Units the first choice of men who are responsible for carrying out production programs.

Consistent, reliable Hercules performance can be had in compressors, portable drilling rigs, liquid and air pumps, stand-by units and other oil-field machinery. For Hercules "fours" and "sixes" are made in sufficient sizes to meet the power needs of a great variety of equipment.

HERCULES MOTORS CORPORATION
CANTON, OHIO, U. S. A.

*Southern Representatives:*

Norvell-Wilder Hardware Co., Beaumont, Texas; Fort Worth, Texas; Houston, Texas; Shreveport, La. The Western Supply Co., Tulsa, Okla.; Cromwell, Okla.; Blackwell, Okla.; Covington, Okla.; Pearson, Okla.; Seminole, Okla.; Borger, Texas

# Hercules

## POWER UNITS

## ENGINES

# Titusville ACME Oil Field Machinery

*Acme Twin Steam Drilling Engine*

## Makes the Hard Jobs Easy

TITUSVILLE "ACME" Oil Field Machinery embodies all of the most modern refinements of design and construction. ACME Steam Drilling Engines, Boilers, Slush Pumps, Rotaries and Drawworks have enjoyed world wide fame for many years. They are daily setting new high standards for performance and economy in every field. By means of built-in, enduring efficiency, ACME units make the hard jobs easy.

The TICO Gas Engine, with New Style Acme or Tico Clutch, is the most popular gas engine in the oil fields solely because of its outstanding performance and durability under any and all conditions. Ask any user about the quality of ACME Oil Field Machinery, manufactured by the Titusville Iron Works Company. Get full particulars from any Continental man.

*"If CONTINENTAL Sells It, There Is No Better"*

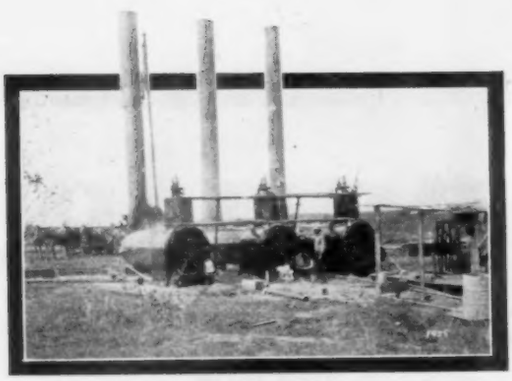
THE CONTINENTAL SUPPLY COMPANY

General Offices: St. Louis

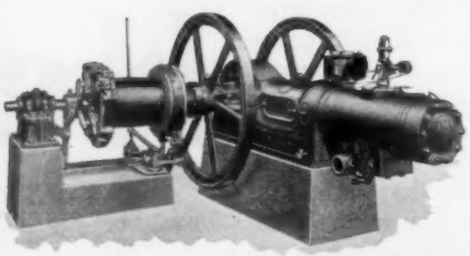
Export Offices: 74 Trinity Court, New York City
London Offices: 316-317 Dashwood House, Old Broad Street, E. C. 2
THE CONTINENTAL SUPPLY COMPANY, Ltd.
69 Thomas Block, Calgary, Alberta, Canada

*Acme Slush Pumps*

*Acme Rotary and Drawworks*



*Acme A. S. M. E. Code Boilers*



*Acme Gas Engine with Acme Reversible Clutch*

# CONTINENTAL

*Say you saw it in The OIL WEEKLY*

# INDEX OF ADVERTISERS


American Well Works.....196
Ajax Iron Works .....36-37
J. S. Abercrombie Company.....197
Alco Oil Tool Company.....169
Allsteel Products Company ..... 46
Andrews Steel Company .....223
Paul Arbon Company ..... 27
Ash Grove Lime & Portland Cement Company ..... 91
Amerada Corporation .....225
Anderson-Prichard Oil Corporation .....225
Allis-Chalmers Mfg. Co. .....111
Askania Werke, A. G. .....192
Athey Truss Wheel Co. .....125
Axelson Machine Co. ..Fourth cover
Ayer & Lord Tie Company.....200

Barber-Greene Company .....127
Bessemer Gas Engine Company.. 35
Barkley & Meadows .....136
Baash-Ross Tool Company.....161
Bartlett-Hayward Company .....223
Bartlesville Supply Company ....201
W. S. Barnickel Company..... 14
Beebe Brothers .....211
Big Lake Oil Company ..... 42
Boykin Machinery & Supply Co... 25
Bridwell Oil Company .....136
Board of City Development, San Angelo .....151
Braden Steel Corporation .....145
Broderick & Bascom Rope Co.... 38
Buffalo Bolt Company .....203
Buckeye Traction Ditcher Co....211
Burns Tool Company .....195
Butler Manufacturing Co. .....155
Byron Jackson Pump Co..... 6
A. M. Byers Company ..... 16

California Pipe Line Machine Company .....212
Central Texas Land & Developing Company .....216
Chamber of Commerce, Houston 167
Chisholm Hoist Corporation .... 95
Chicago Bridge & Iron Works.. 96
Chicago Pneumatic Tool Company .....104
Clark Brothers Company .....162
Clark Machine Company .....135
Climax Engineering Company....121
Continental National Bank .....194
Columbian Steel Tank Company..182
Consolidated Oil Company .....192
Continental Supply Company .....44
Continental Supply Company..9-44-75
Fred E. Cooper Company ..... 31
Crucible Steel Company of America ..... 87

Darling Valve & Manufacturing Company .....101
D. & .B Pump & Supply Company..93
E. M. Dart Manufacturing Company .....180
Diamond Drill Carbon Company..206
Drane-Humphreys Company .....154

Eastland Oil Company .....211
Empire Gas & Fuel Company....165

Federal Supply Company .....119
First National Bank, Tulsa .....208
Leland E. Fiske ..... 216
Fort Worth Laboratories .....216
Fort Worth National Bank .....213
First National Bank, Fort Worth 196
Franklin Valveless Engine Company .....147
Frick-Reid Supply Company ....149

Gaso Pump & Burner Manufacturing Company ..... 3

H. P. Gott Manufacturing Company .....215
The Guiberson Corporation..108-109
General Electric Company ..... 81
Gulf Refining Company .....226
Gulf States Utilities Company ... 71

Erle P. Halliburton Company ...218
Harrisburg Pipe & Pipe Bending Company .....Third cover
Harrisburg Pipe & Pipe Bending Company of Texas ..... 23
Haynes Stellite Company ..... 177
Hardway & Cathey .....216
Heppenstall Forge & Knife Company .....217
Hercules Supply Company .....175
Heydrick Mapping Company .....136
Hercules Motors Corporation .... 43
Hill, Hubbell & C ompany ..... 89
Hirsch & Brown .....216
Charles N. Hough Manufacturing Company .....207
Houston Engineers .....199
Hughes Tool Company ..Front cover
Hunter-Walker Company ..... 202

Imperial Royalties Company ....216
International Derrick & Equipment Company .....4-5
Ingersoll-Rand Company .....171
International Petroleum Exposition .....106
Iverson Tool Company .....210

Jensen Brothers Manufacturing Company .....183
The S. M. Jones Company ..... 187

Kansas City Hay Press Company 204
Kennedye Plumb Corporation ...220
Kerotest Manufacturing Company 21
Kelly, Dempsey & Company .....102
Keystone Pipe & Supply Company .....206

Landreth Production Corporation 181
Larkin & Company .....157
Lone Star Gas Company .....141
Ludlow Valve Manufacturing Company .....200
Link-Belt Company .....117
A. M. Lockett Company .....217

J. H. McEvoy & Company ..... 83
McMan Oil & Gas Company .....188
Maintenance Engineering Corporation .....216
Phillip Maverick .....206
Magnolia Petroleum Company ... 85
Maloney Tank Manufacturing Company .....190
Martin-Loomis Corporation ..... 39
McCollum Exploration Company 216
Mead-Morrison Mfg. Company...205
Metric Metal Works ..... 19
Mid-Continent Oil & Gas Association .....40-41
Miller Combination Bailer & Pump Company ..... 33
Robert J. Miller Company .....222
Lee C. Moore & Company ..... 73
National Supply Companies .....189
National Turnbuckle Derrick Company .....113
Norris Brothers .....223
R. D. Nuttall Company ..... 32
Nye Tool & Machine Works ... 7

O. C. S. Manufacturing Company 184
Oklahoma Contracting Company 34
Oklahoma Gas & Electric Company .....158-159
Ohio Mid-Cities Corporation ...134
Oil Well Supply Company ..... 48
Oxweld Acetylene Company ..... 30

Pattin Brothers Company ..... 28
Patterson-Ballagh Corporation... 10
Pecos Valley Power & Light Company .....185
Peden Iron & Steel Company ...214
Petroleum Rectifying Company..173
Pittsburgh Equitable Meter Company .....191
Petroleum Producers Company..134
Phillips Petroleum Company .... 17
Philadelphia Gear Works .....153
Pratt & Whitney .....207

Rhode Island Fitting Company ..198
Red Bank Oil Company .....212
Republic Supply Company .....123
Republic Iron & Steel Company .. 26
Joseph Reid Gas Engine Company ..... 15
Rollway Bearing Company .....203

Safety Pulling Machine Company .....201
San Angelo National Bank .....150
A. O. Smith Corporation ..... 69
The Sun Oil Company .....205
Shaffer Specialty Company ..... 24
Second National Bank, Houston 221
H. C. Smith Manufacturing Company ..... 13
J. E. Shaffer Company .....220
Smith Separator Company ...142-143
Southern Mill & Manufacturing Company .....209
Shaffer Tool Works .....180
Spang & Company ..... 11
Shaffer Oil & Refining Company 186
Spang Chalfant & Company ..... 20
Staley, Wynne & Company .....137
Stanley Belting Corporation .... 198
J. R. Stone .....216
Sullivan Machinery Company ... 79

Texon Oil & Land Company ...129
Texas & Pacific Railway .....213
Texas Division, Mid-Continent Oil & Gas Association .....224
Texas-New Mexico Power Company ..... 29
Templeton Kenly & Company ...204
The Texas Company .....224
Timken Roller Bearing Company 22
Titusville Iron Works ..... 8
Edgar Tobin Aerial Surveys, Inc. .....180
Tyler Tube & Pipe Company ...221
Tulsa Pump Company .....152

Union Wire Rope Corporation ... 99
United Iron Works ..... 18
U. S. Tool Company ..... 12
U. S. Torpedo Company ..... 137

Wales & Company .....216
Ward Chemical Company .....208
C. W. Webster .....215
Wilson-Snyder Manufacturing Company ..... .115
Western Metal Manufacturing Company .....202
West Texas Utilities Company ..103
John F. Weinzierl .....216
Westcott & Greis .....193
West Texas Chamber of Commerce .....179
Wichita Falls Motor Company 131
Wichita Falls Chamber of Commerce .....138
Wickwire Spencer Steel Company .....221
Wright Manufacturing Company..214
Zero Hour Horpedo Company .....Second cover

# REASONS WHY THE ALLSTEEL WINCH

*Pulling 8" casing from an abandoned well*

mounted on a "Caterpillar" tractor will save you time and money in pulling rods, tubing and casing. It is a double winch and operates without the use of auxiliary speed drums or changing lines. With six speeds forward and two reverse it offers the widest range of speeds and pulls of any winch built. It is the only all steel double winch free release drum in the world.

The Cardwell-Keltner Allsteel Winch, mounted on a "Caterpillar" tractor, combines every approved engineering practice, and many practical, field-proven features.

The value of the Winch, with such a transportation and power unit as the "Caterpillar," has been proven in every modern oil field in the world, making the complete unit the most modern of all oil field equipment.

The Cardwell-Keltner Allsteel Winch, mounted on a "Caterpillar" tractor, offers the greatest advancement in Winch construction since the inception of portable power winch equipment for oil well pulling purposes.

The all steel construction upon a steel channel frame reduces repairs to the minimum, and avoids breakdowns causing loss of production.

No company owning a Cardwell-Keltner Allsteel Winch has been forced to shut down on account of broken winch parts, or failure of winch to properly function.

"Caterpillar" tractors insure the power and traction for hauling heavy loads, road grading, slush pond cleaning, or other heavy work, without a moment's delay, regardless of bad weather or other adverse conditions.

The Cardwell-Keltner Allsteel Winch pulls all tubing and rods straight from crown block, with no floor block—no special anchor needed other than chain down to the rig sill. (Special "boomer" hooks are on Winch.)

Cardwell-Keltner Allsteel Winches, mounted on "Caterpillar" tractors, have reclaimed thousands of dollars worth of pipe from abandoned wells, some of it having been in the ground ten to twenty years.

**Now Ready for Delivery on**

"Caterpillar" Two Ton
"Caterpillar" Twenty
"Caterpillar" Thirty

Due to the demand for a lighter winch, the Allsteel models for the "Caterpillar" Two Ton and the "Caterpillar" Twenty are now available, and have been operating successfully on a number of leases. These two models are single winches with four speeds forward and one reverse. The single line speed is from 75 to 275 feet per minute, and the single line pull is from 2,000 to 9,700 pounds.

Specifications on all Cardwell-Keltner Allsteel Winches will be mailed on request.

*Reclaiming 15" casing which had been in the ground over ten years*

## THE ALLSTEEL PRODUCTS MFG. CO. Inc.

231 West English St. *There is a "Caterpillar" dealer in every country on the globe—Let us send you his name* Wichita, Kansas, U. S. A.

JUL 30 1928

©CI B796341

Volume 50, No. 6 July 27, 1928

# The OIL WEEKLY

Edited Weekly at Houston, Texas

SPENCER W. ROBINSON, Editor

## TABLE OF CONTENTS

### Features

REFINED PRICES CONTINUE THEIR UPWARD TREND ..... 49
*By Kent Ridley*

OKLAHOMA CITY WILDCAT MAY START DRILLING CAMPAIGN ..... 51
*By Wallace Davis*

STATISTICS FORESHADOW EARLY ADVANCE IN CRUDE MARKETS ..... 53
*By H. J. Struth*

WATER, GAS AND CORROSION COMBINE TO MAKE WORK DIFFICULT IN WEST TEXAS ..... 57
*By A. R. McTee*

SULPHUR CRUDES FAST LOSING BAD REPUTATION ..... 63
*By George Reid*

ABUNDANT LOW PRICED CRUDE BOUGHT UNDER LONG CONTRACTS ..... 65
*By H. H. King*

INERT GAS USED TO REDUCE FIRE HAZARD ON TANKS ..... 67
*By George Reid*

WEST TEXAS CRUDE DRAWS MANY MILES OF PIPE LINE ..... 70
*By H. H. King*

MAP SHOWING WEST TEXAS PIPE LINES ..... 76

OWNERSHIP MAPS OF IMPORTANT WEST TEXAS AREAS, BEGIN ..... 78

DOZEN NEW PROSPECTIVE FIELDS FOUND IN WEST TEXAS ..... 94
*By H. H. King*

STRONGER COMPANIES QUICK TO BUY WILDCAT DISCOVERIES ..... 97
*By H. H. King*

WEST TEXAS DISCOVERY WELLS ..... 98

MOST WEST TEXAS WILDCAT FAILURES DURING RECENT MONTHS ..... 105
*By H. H. King*

WEST TEXAS TANK CAPACITY ABOVE 45 MILLION BARRELS ..... 116

MEXICAN PRODUCTION SUBSTANTIALLY UNDER LAST YEAR ..... 120

HEAVY SHIPMENTS IN TANK CARS FROM WEST TEXAS ..... 122

CRUDE SHIPPERS MAKE ADVANCES IN RACK CONSTRUCTION ..... 126
*By A. R. McTee*

PRORATION EFFORT REDUCES OUTPUT FIRST HALF 1928 ..... 133

CLEANING PLANT MAKES OBNOXIOUS GAS USEABLE ..... 148
*By Jack Logan*

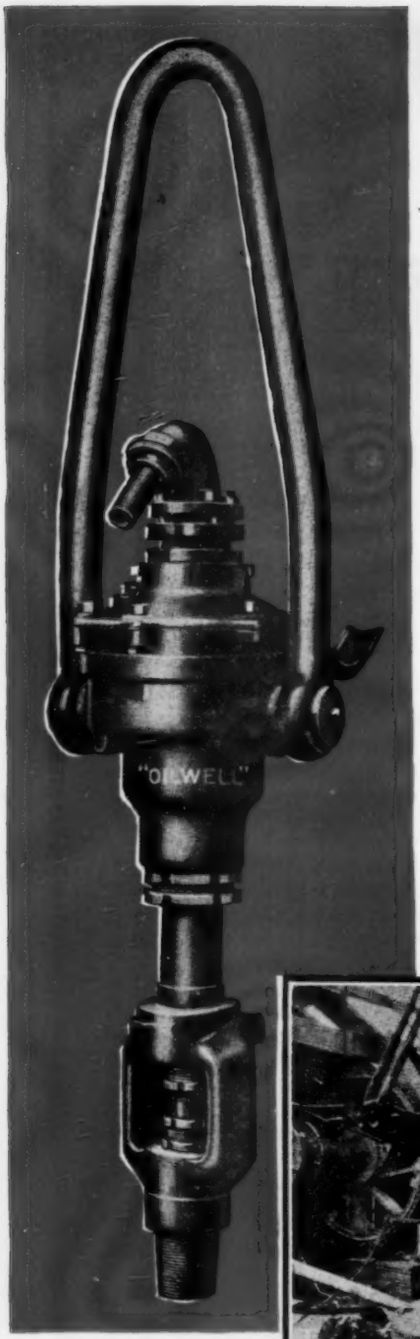
REGULAR FEATURES AND DETAILS FOR THE WEEK, BEGIN ..... 164

Published Weekly By GULF PUBLISHING COMPANY
Copyrighted, 1928

R. L. DUDLEY, *President* — A. L. BURNS, *General Manager* — SPENCER W. ROBINSON, *Editorial Director* — J. KENT RIDLEY, *Managing Editor*

Office of Publication: 3301 Buffalo Drive, Houston, Texas

NEW YORK: Rooms 408-409, 250 Park Avenue, R. P. Swinsky, Manager. PITTSBURGH: 510 Park Bldg., W. W. Pigue, Manager. CHICAGO: Room 520, 624 S. Michigan Ave., O. R Waller, Manager. LOS ANGELES: 416-417 Haas Bldg., Wm. V. Gross, Manager. TULSA: 215-218 Atco Bldg., J. F. Carter, Jr., Manager. FORT WORTH: 203 W T Waggoner Bldg., H. H King, Manager. Issued Friday of each week. Single copies 10 cents. Subscription price, Domestic $1.00 a year, Foreign $2.00 a year. Subscription restricted to those engaged in the producing and pipe line branches of the oil business or the manufacture and distribution of oil field supplies. Advertising rates on application.




# OF COURSE YOU WANT THE BEST

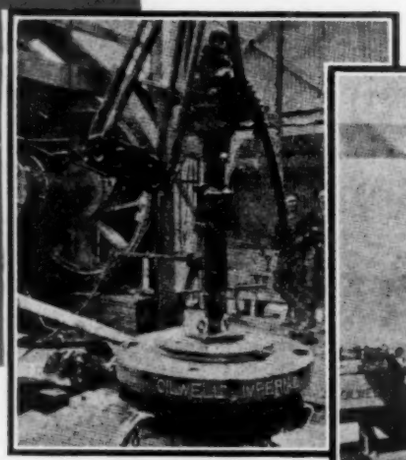
AS rotary drilling becomes deeper and deeper, you cannot afford to experiment with new untried equipment.

Only proven equipment which has successfully drilled to great depths should be used.

The "OILWELL" Oilbath Rotary Swivel has been thoroughly proven in all fields and can be relied upon to do the work.

Oil bath lubrication eliminates lubrication worry. All working parts are completely enclosed. All glands are packed and adjusted from the outside without removing any part of the swivel.

***Send for special Bulletin or inquire at any of our 100 Branches***



7092 feet
In the California Field

7598 feet
In the Texas Field

"OILWELL"
ESTD. 1862.
TRADE MARK.
(REGISTERED)

# OIL WELL SUPPLY CO.

NEW YORK—LOS ANGELES—PITTSBURGH, U.S.A.—SAN FRANCISCO—TAMPICO—LONDON
WORLD'S OLDEST AND LARGEST MANUFACTURERS OF OIL FIELD EQUIPMENT

# Refined Prices Continue Their Upward Trend

## Natural gasoline goes to 9½ cents per gallon while domestic sales to jobbers of motor gasoline is near that figure; crude deals in Oklahoma

By KENT RIDLEY

CONTINUING the trend of the last five weeks, American Petroleum Institute estimates of production for the week ending July 21, show a gain of 10,350 barrels, making the daily average slightly above 2,400,000 barrels daily. Oklahoma was up 4650 barrels, the first gain in that sector for a number of weeks, while Texas, due principally to a gain in Winkler County above the prorated allowance, was up 7650 barrels. Details of production are shown on page 164 of this issue.

The North Texas district has lately developed a local soft spot in the crude market as result of a sudden wave of flush production on the W. T. Waggoner ranch in the South Vernon district, Wilbarger County, sending the output of the latter county to a new peak of 30,750 barrels daily average last week. This area is served by stub lines operated by Humble Pipe Line Company, Texas Pipe Line Company and Sinclair Pipe Line Company, and the latter are reluctant to materially increase their transportation facilities since the Waggoner Estate reserves the right in most leases to buy all oil produced for its Electra Refining Company. The drilling operations of the Waggoner Estate have yielded the largest flowing wells lately, and earthen storage has been used temporarily to dispose of the oil. The Waggoner Estate controls the only available drilling water supply, and has notified operators that this supply will be severed if additional wells are drilled in before storage or more adequate pipe lines are available. Pipe line companies are demanding two- or three-year crude contracts from the estate before increasing their lines.

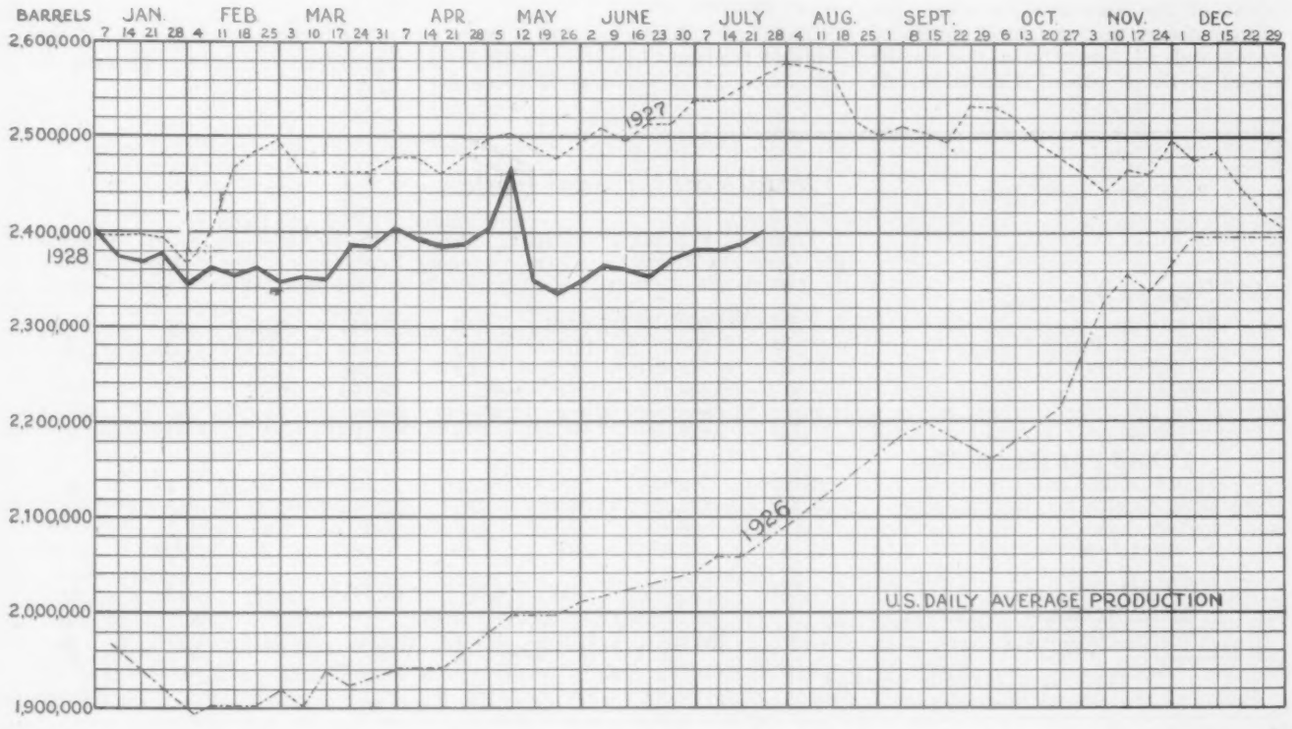
The biggest change evidencing strength in refined markets in Oklahoma and Kansas during the week just past was the soaring of natural gasoline to 9½ cents flat. Heavy consumption has wiped out large stocks of this product in the northern Mid-Continent and indications are that natural will continue higher. The differential between grades has been wiped out. Buyers who are short on natural gasoline made some contention that stocks were being stored rather than turned over in order to raise prices, but this is shown to be unfounded.

U. S. Motor gasoline during the week was 8½ cents for the low, and some refiners were reported getting 8⅝ cents. Mid-Continent refiners sold approximately 5,000,000 gallons of gasoline during the week from stocks aside from regular runs, which are now slightly higher than a month ago.

Fuel oil showed better strength during the week, 24-26 gravity going at 67½ to 70 cents per barrel. Kerosene showed better strength, some refiners quoting five cents flat for 41-43 stuff, and the low being at 4¾ to 4⅞ cents. Naphthas are quoted at 8⅛ to 8¼ out of the Chicago territory.

Pulling of crude from Oklahoma and Kansas storage continues briskly, and considerable selling was evidenced between companies during the week. Barnsdall Oil Corporation sold 200,000

## UNITED STATES CRUDE PRODUCTION TREND



barrels of Seminole stored oil to Champlin Refining Company of Enid and 80,000 barrels to Roxana Petroleum Corporation. Champlin Refining Company is running this oil through its combination system to Enid to supply its refinery. Champlin has a wide distribution in Western Oklahoma, and has recently been a strong bidder for Oklahoma sweet oil. Roxana is selling about 2000 barrels of West Texas crude daily to Globe Oil & Refining Company, following the latter's taking over of Sinclair's old 2000 barrel refinery at Cushing. The Seminole crude purchased by Roxana from Barnsdall will be used in mixing a 50-50 percentage of Oklahoma and West Texas crude at Cushing for running to Roxana's refineries at Wood River, Illinois, and Hammond, Indiana.

Carter Oil Company has bought over 600,000 barrels of Burbank stored oil for removal to Eastern refineries, including 156,000 barrels from Skelly Oil Company and 470,000 barrels from Mid-Kansas Oil & Gas Company. Vacuum Oil Company is still moving 7000 barrels daily from Burbank storage in tank car to Gulf Coast points to be shipped to Atlantic seaboard. Some companies are getting as high as 15 cents premium on Burbank crude.

Weaknesses appearing during the past week in the Maud area of Township 8-5 and the Mission pool in Township 8-6 are throwing better light on the future market situation. The Oklahoma and Kansas crude market will be determined during the next two months largely by the outcome of development in South Little River and the Wilcox field in Section 19-7-5, Pottawatomie County.

The latest report of the Pacific Coast office of the American Petroleum Institute shows that the total stocks of crude and all products in the Pacific Coast territory gained 928,000 barrels during June, bringing to the attention of the industry the fact that a slight overproduction still prevails, even in the face of increased consumption. The 394,000 barrel increase in heavy crude stocks was considerably larger than expected and was undoubtedly brought about by the light demand for fuel oil, which is included in the heavy crude account. Light oil production during the month was greater than during May, but stocks showed a gain of only 80,000 barrels. Gasoline stocks increased 319,000 barrels during the month, totaling 13,627,000 barrels on July 1. The slight increase in refinery operations to meet the demand for gasoline helped to prevent a greater increase in light oil stocks, but was unfavorably reflected in the gain in heavy stocks, due to the throwing over of fuel oil to the heavier products column. A careful study of the Institute's report shows that the industry in California has not completely recovered from recent and present overproduction in certain parts of the country.

The Long Beach field showed little change during the week, but the assurance that production will not climb much higher was a stabilizing factor. Production is hovering around 200,000 barrels, which is ordinarily enough to upset the market for crude, but the demand for light oil has saved the situation. Small premiums are still being paid in the field, with only a small floating supply of crude available.

Both the wholesale and retail prices of gasoline remain unchanged. The largest refiners are becoming reconciled to certain market factors which threatened for a time to result in serious price cutting. Peak consumption for the year will soon be reached, with indications that sales will break all previous records.

The fuel oil market has shown a decided tendency to soften, with little likelihood of an increase in price for several months. Many industries switch from fuel oil to natural gas during the summer months to take advantage of special rates, and this change has had anything but a beneficial effect.

Fort Worth Texas—A determined stand is being taken by a group of independent producers with small leases in the Hendrick field to have the proration rules amended in such a way that a continuation of production restrictions could not be maintained with harmony. The proration advisory committee has called a special meeting to be held here Wednesday July 25 to consider the pleas of the protesting producers, and the matter is to be put to the Texas Railroad Commission for disposition at a hearing scheduled for August 1 at Austin.

Fifty per cent. of the allowable daily production in the Hendrick field is allotted on a basis of producing acreage or for 40-acre units, and the remainder on a basis of potential production of all wells on the units. Cranfill and Reynolds, Murchison Oil Company and Cranfill Brothers Oil Company, who are included in the group of protesting operators, have leases ranging from five to 40 acres, and are requesting that the allowance for acreage be discontinued, or limited to 25 per cent. of the allowable production. This move would automatically cut down the production allowance of a number of the largest lease owners who have spent large sums for development and have many small wells that will not register a high potential, but do earn a reasonable daily allowance with the aid of the acreage percentage.

Enforcement of proration in the Hendrick field has been in effect since May 5 and in the Yates field since October 1, last year, but so far no serious opposition has been registered by the operators.

## Details on Critical Fields

| | Oil Wells Completed | Total Initial Production | Initial Per Well | Number Producing Wells | Daily Production Barrels | Daily Prod. Per Well | Rigs Up | Wells Drilling |
|---|---|---|---|---|---|---|---|---|
| **WEST TEXAS—** | | | | | | | | |
| Hendrick | 251 | 1,090,155 | 4,343 | 258 | 177,440 | *688 | 25 | 143 |
| Church & Fields | 184 | 201,870 | 1,097 | 183 | 36,950 | 202 | 1 | 1 |
| Gulf-McElroy | 62 | 53,960 | 870 | 62 | 14,730 | 238 | .. | 2 |
| Yates | 224 | 1,468,115 | 6,554 | 233 | 68,690 | *295 | 8 | 30 |
| Total | 721 | 2,814,100 | 3,903 | 736 | 297,810 | 405 | 34 | 176 |
| **TEXAS PANHANDLE—** | | | | | | | | |
| Hutchinson County | 1,110 | 546,645 | 492 | 978 | 35,180 | 36 | 4 | 20 |
| Gray County | 237 | 104,335 | 440 | 226 | 20,245 | 90 | 6 | 59 |
| Carson County | 179 | 59,030 | 330 | 149 | 6,285 | 42 | 1 | 9 |
| Wheeler County | 42 | 14,230 | 339 | 33 | 865 | 26 | 2 | 11 |
| Total | 1,568 | 724,240 | 462 | 1,386 | 62,575 | 45 | 13 | 99 |
| **OKLAHOMA—** | | | | | | | | |
| *Greater Seminole | 1,347 | 1,650,916 | 1,225 | 1,100 | 242,997 | 221 | 21 | 143 |

(*) Production partially pinched.

# Oklahoma City Wildcat May Start Drilling Campaign

## Strong gas flow and oil sand in the center of Oklahoma gives promise of production which would involve a number of companies

By WALLACE DAVIS
*Staff Representative*

TULSA—In the center of the southeast of the southeast of 24-11-3w, Indian Territory Illuminating Oil Company's Oklahoma City 1, has developed the greatest excitement of the year in the Mid-Continent. After drilling out of a gas sand in the upper Tonkawa series at 3997-4018 feet through green shale to 4105 feet, a second sand was encountered showing oil. Operators were coring ahead Tuesday afternoon. Gas production was estimated at 30,000,000 feet from the upper sand.

A 20-acre tract one mile north of the well was priced Tuesday at $500 per acre and royalty a quarter mile away demanded $600 per acre.

In event of a good producer a drilling campaign is highly probable shortly, due to close offsets checkerboarded. W. R. Ramsey has the west half of the northeast quarter of Section 24-11-3, two-thirds of the southeast quarter of Section 23-11-3 and two-thirds of the northwest quarter of Section 18-11-2. Coline Oil Company, Santa Fe Railroad subsidiary, has the northwest quarter of Section 24-11-3 and the southwest quarter of Section 18-11-2. Wirt Franklin has the northwest quarter of Section 25-11-3 and the northwest quarter of Section 19-11-2. T. B. Slick has the southeast quarter of Section 19-11-2, three-quarters of a mile east. Sinclair Oil & Gas Company has the south half of the northwest quarter of Section 30-11-2 and the northeast quarter of Section 36-11-3. Roxana Petroleum Corporation has the northeast quarter of Section 30-11-2 and 240 acres a mile and one-half northeast of the well. Amerada Petroleum Corporation has the southeast quarter of Section 30-11-2, and Cromwell Oil & Gas Company has lease on Trosper Park, one mile north, which covers approximately a section.

The well is approximately six miles south and slightly east of the main business district of Oklahoma City and eight miles south and two miles east of Cromwell-Franklin's Thompson 1 which is located in the southeast corner of Section 15-12-3w and now fishing for tools at 6900 feet, the deepest hole in Oklahoma. Thompson 1 spudded July 4, 1927, and standardized at 6821 feet.

Indian Territory Illumianting Oil Company has approximately 7000 acres around the well, and Phillips Petroleum has approximately 3000 acres blocked almost solid several miles to the south.

The geology of this area was worked out by Dr. Anderson of the Oklahoma University geological department. Aside from the I. T. I. O. block, Phillips Petroleum Company is the largest acreage holder in the immediate territory, having approximately 6000 acres just west of the discoverer's block.

### Northern Maud Well Weak

The northwest extension area to Barnsdall Oil Company's wildcat discovery in Section 14-8-5, Seminole County, was about eliminated from the running for sizeable production from its performance early this week. Indian Territory Illuminating Oil Company's Simpson 1, in the southeast of the northeast of Section 10-8-5, which had an initial yield of 1204 barrels July 14 from Wilcox sand at 4222-32 feet, but which looked weak immediately after being completed, was completely off production Monday of this week. The hole stood 2500 feet in fluid, two-thirds of which was water. Operators were drilling out a plug at 4227 feet, to where the hole had been plugged back, and another effort was to be made to shut off water. Apparently this well is on the north edge of the pool tapped by Barnsdall early this year in the northeast of the northwest of Section 14-8-5. The latter is now being produced twice weekly, making 350 barrels each time to get its allotment of 100 barrels daily under the proration agreement. Unless the I. T. I. O. well is on the edge of the pay structure it offers considerable weakness to this immediate area.

The Mission pool in northwestern 8-6 also showed further weakness during the past week. Marland Oil Company's Maines 1, in the northeast of the southeast of the southwest of Section 7-8-6, swabbed 740 barrels Sunday in 12 hours and 260 barrels Monday in four hours from Wilcox at 4413-15 feet. This well is showing no water but has no gas pressure, and operators were preparing to deepen the hole Monday. Gypsy Oil Company's Mosar 1, in the southeast of the northeast of Section 1-8-5, topped the Woodford chert at 4030 feet late last week. Indian Territory Illuminating Oil Company's Ritenour 1, a semi-wildcat in the southeast of the southwest of the southwest of Section 22-8-5, late in the week topped Mayes lime at 4057 feet, and set the 8¼-inch casing at 4060 feet.

Further weakness in Township 8-6 is seen in Gypsy Oil Company's Cinda Brown, discovery well two miles west of the old Little River field. Opened and cleaned two weeks ago to make 3300 barrels, production had declined to 1300 barrels at the close of last week, and preparations were being made to install air-lift. Gypsy Oil Company is drilling a west offset and a well three locations west, while the Minnehoma Company is drilling a south offset, Barnsdall a southwest offset and a well offsetting its own location on the west. Twin State Oil Company is drilling a west offset to the Barnsdall Company's western location and offsetting Gypsy's westernmost location on the south.

### Greater Seminole Down

Production from Greater Seminole found a new low with Monday's gauge with 236,441 barrels from 1099 wells. This represented a loss of 5328 barrels from production of a week previous, and due to the usual see-sawing during the week, represented a loss of 6556 barrels from production of two days previous, Saturday's gauge. Production for the July 16 and 23 gauges are as follows, by fields:

| Field— | Wells | Jly 16 | Wells | Jly 23 |
|---|---|---|---|---|
| Little River.. | 135 | 42,773 | 136 | 38,676 |
| Bowlegs . .. | 321 | 55,898 | 322 | 57,017 |
| Earlsboro .. | 274 | 80,310 | 371 | 76,769 |
| Seminole City | 300 | 49,776 | 300 | 50,881 |
| Searight ... | 67 | 12,586 | 67 | 13,098 |
| Maud . ..... | 3 | 436 | 3 | ..... |
| Totals . .. | 1,100 | 241,779 | 1,099 | 236,441 |

### St. Louis Pool

Sinclair Oil & Gas Company's Kitchee 1, in the northwest of the southwest of Section 19-7-5, St. Louis field of Pottawatomie County, and directly west of the two big Wilcox sand producers, flowed by heads from Hunton lime at 3710-82 feet July 19, and caught fire, burning the rig completely. Hunton lime production was not expected in this well, but rather Wilcox or Simpson sand were the objectives in the location. It is a half mile from any former production, half way between the Wilcox pool and Hunton lime and Simpson sand production due west.

# Sinclair Increasing Pipe Line Capacity to Chicago

TULSA—Plans are being worked out by Sinclair Pipe Line Company for substantially increasing its oil line capacity from Cushing to Whiting, Indiana, location of Sinclair Refining Company and Standard Oil Company of Indiana refineries. Definite decision has not been made early this week, but the increase is expected to raise present capacity of 50,000 to approximately 80,000 barrels.

Sinclair Pipe Line Company, owned 50 per cent. by Sinclair Consolidated Oil Company and 50 per cent. by the Standard Oil Company of Indiana, laid an eight-inch screw line from Cushing to Whiting, 678 miles, in 1917-18, which had a carrying capacity originally of 18,000 barrels. In 1923 this capacity was increased to nearly 50,000 barrels by a complete looping system of combination eight and 12-inch and the addition of extra booster stations, bringing the number of boosters to 17. Since that time further capacity has been added through the laying of short eight-inch loops intermittently at places of high pressure along the system. The latter were laid between the original eight-inch and the combination eight and 12-inch loop.

The Drumright station, near Cushing, is the central point of Sinclair Pipe Line Company's gathering system in the Mid-Continent. The present system includes more than 2150 miles of main lines and 1600 miles of gathering lines. From the Drumright station crude is moved south to the Sinclair refinery and terminal on the Houston Ship Channel.

Sinclair Pipe Line Company has a line capacity out of the Greater Seminole district of 60,000 barrels daily, and during the past month has moved an average of 30,000 barrels out of the fields. This is divided about equally between two carriers, one eight-inch line from the center of Greater Seminole fields east to Wewoka and north via Henryetta, and a combination six- and eight-inch carrier from the company's Lima station north through Earlsboro and connecting with an old double six and eight-inch main at Payson station, north of Shawnee, which leads to Drumright station on the north and south main system.

Sinclair Pipe Line Company is now completing a gathering line system in South Little River field which will total 20,000 barrels. A 15,000 barrel capacity station is just completed, and additions will be made to this if the crude supply demands. Sinclair's first line into South Little River was a four-inch leading from Little River field proper. Recently this has been looped with a four-inch and a six-inch. This system runs north through the old Little River pool to Lima station, and thence crude is transferred to the Drumright station through the two carriers.

Reports which are not official are current that Sinclair Pipe Line Company is contemplating a new oil line from the Wichita Falls district in North Texas to West Texas for the purpose of handling Winkler and Pecos County crudes north. Such a move would give the Sinclair much the same facilities as that of the recently completed system of Shell Pipe Line Company from McCamey, Texas, to Cushing and north to Hammond (East Chicago), Indiana.

# Wilbarger Production Is Above Handling Facilities

WICHITA FALLS, Texas.—Completion of a group of flowing wells within the past two weeks on the Waggoner Estate of the South Vernon district sent Wilbarger County's daily average production to a new high mark of 30,750 barrels for the past week, with a peak of 37,550 barrels during the 24-hour period ending July 15.

Pipe line congestion has followed this unexpected rise, and the lid has been clamped down on new connections by Texas, Humble and Sinclair Pipe Line Companies while the Waggoner Estate has ordered operators to halt new tests on top of the pay or be deprived of drilling water supply, which is controlled by the latter.

The Waggoner Refining Company, which is owned by W. T. Waggoner, multimillionaire and stockman, has been scoring a large share of the big producers, and is making an effort to induce pipe line companies to enlarge their lines, or to attract new lines to the district with a bonus. The Waggoner Estate retains the right to purchase all oil produced on its land in most lease contracts, and lately has found it impractical to dispose of its own production, with about 2000 barrels daily being consumed at its electric refinery. Present lines serving the district offer to provide facilities to take more oil than at present if a two- or three-year contract will be granted to run this oil by the Waggoner Estate. The latter is now negotiating with a major company, not in the South Vernon district with a line, to build in and take oil as directed by the estate in return for the donation of leases on about 2000 acres of Waggoner lands.

The Greyback pool is the most active on the Waggoner Ranch property, and a 4800-foot extension to the southwest of the producing area was given last week when Phillips Petroleum Company's Waggoner-Norwood 1 A swabbed and flowed 800 barrels of high gravity oil during the first day from sand at 2365-8 feet. Phillips paid a bonus of $2000 per acre, one-half cash, for a 40-acre lease offsetting this well, which had to be shut in for storage.

The Strawn sand pool uncovered in western Jack County last April by the Panhandle Refining Company's Daugherty wildcat producer, was assured of two more producers this week. Panhandle's Smith 1, located in the Isaac Hughson Survey and two miles northwest of Bryson, swabbed and flowed 400 barrels initial from sand at 2935-50 feet, and the Petroleum Producers Company's and The Texas Company's Jones 1 was filling with oil while setting casing on sand at 3129 feet. This pool promises to be the best Strawn sand discovery in the county.

## North Dayton Gets First Important Production

Houston.—After exploration efforts continuing since about 1901, Dan Harrison succeeded in completing the first big producer from the deep sand on the old North Dayton dome, this week. The well, Harrison Oil Company's Quintette 3 came in good for 4600 barrels of pipe line oil from 4317 feet. Production was through a one-inch choke and the initial pressure was 325 pounds. Gravity of the oil tested 38.6. Pressure increased to 550 pounds and the well is making 3900 barrels.

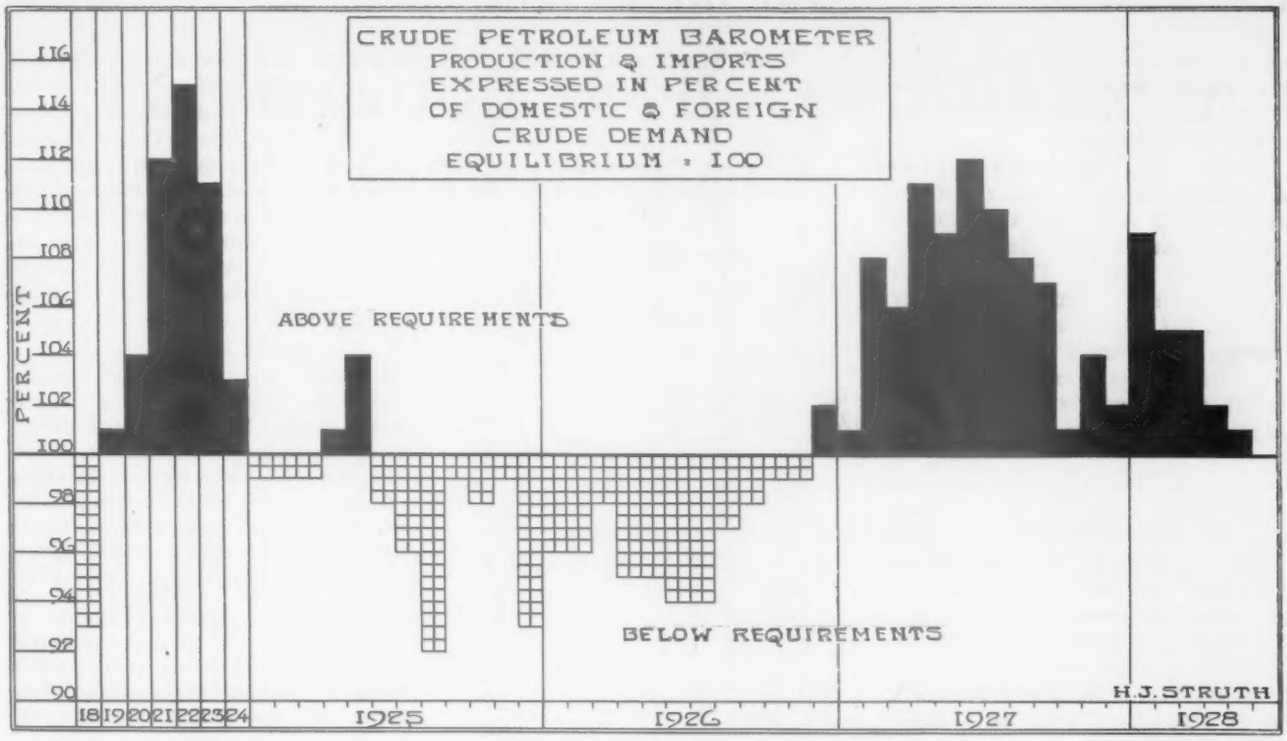
Location of the well is 550 feet west of the east line of the Quintette 50 acre lease, and 450 feet south of the north line.

With reference to other production the well is 200 feet west and 50 feet south of Quintette 1, the first producer from the deep sand. This well has been in slightly more than a year and ha saveraged 208 barrels of pipe line oil for several months. These two wells are the only deep ones around the dome that have had commercial production.

The Quintette lease is on the south side of the dome about 1200 feet south of the old shallow production. The lease is bounded on the north by the salt dome and on the other sides by property held by the major companies, so that there is little danger of much other drilling resulting from the new producer.

Harrison Oil Company has made no plans for further drilling at this time.

The Sun Pipe Line Company is taking the oil from the two wells, with a four-inch gathering line which connects with its main line at the Dayton pump station.




# Statistics Foreshadow Early Advance In Crude Markets

## Petroleum situation shows definite signs of improvement, but danger seen in potential supply in restricted fields

By H. J. STRUTH
*Petroleum Economist*

ALTHOUGH we have heard rumors since the beginning of this year to the effect that the posted price of Mid-Continent crude would be advanced, it is only now that these rumors are beginning to appear to have a logical foundation. An analysis of the crude petroleum situation for the balance of 1928 indicates the possibility of an aggregate decline in stocks of 25,000,000 barrels by the end of this year. According to the Bureau of Mines report for May, there was practically no change in crude stocks between April 30 and May 31. Although actual figures are not available for June and the first two weeks of July, it appears evident, from studies of potential requirements and present rates of production in various fields, that producers' stocks of crude are already being drawn upon to supply the demand. This lends conviction to the belief that an advance in the crude oil market is justified at the present time and foreshadows the probability of an early upward revision in the Mid-Continent, Rocky Mountain and Central West fields.

### Situation Dangerous

While producers in many sections feel that they are entitled to a better market price for their crudes, they should not lose sight of the fact that our present situation is really a dangerous one. With a potential supply of oil in Oklahoma, West Texas and California awaiting only an incentive to bring it to the surface, the petroleum industry is faced with complexity. Nevertheless, a reasonable price boost appears imminent and could probably be absorbed without serious effect. Of course, if one boost is taken as a cue to begin a series of mark-ups, it is a foregone conclusion that all curtailment and conservation efforts will be frustrated. The producer is no doubt entitled to receive more per barrel for his oil, but he cannot expect more than an equitable adjustment of crude values at this time. In other words, an advance of 25 to 30 cents a barrel would be the economical limit to expect during this year. Any attempt to increase market values beyond that point will only bring about a situation that will be as bad or even worse than that from which we seem to be emerging.

While it is rather difficult to predict the trend of oil production for the last seven months of this year, the writer has attempted to portray the situa-

**Indicated Crude Petroleum Situation**
(June 1 to December 31, 1928)

| | Million barrels |
|---|---|
| Stocks on hand June 1, 1928 | *412 |
| Indicated Production balance of 1928 (net) | 503 |
| Probable Imports balance of 1928 | 49 |
| Total supply | 964 |
| Potential Refinery Demand | 568 |
| Probable Exports | 9 |
| Total Demand | 577 |
| Indicated Stocks December 31, 1928 | 387 |
| Indicated Decrease in Stocks | 25 |

(*) Does not indicate refinery stocks of 43 million barrels nor California fuel oil, estimated at 30 million barrels.

tion as it appears to him at the present time. On this page is a summary of the probable course of the crude situation for the balance of this year:

On the whole, if conditions shape up as outlined above, the net result for the year 1928 will show a decline in producers' stocks of crude of barely eight million barrels. This would reflect considerable improvement over last year, but emphasizes the fact that it cannot be construed as a very "bullish" factor in the present crude market. If it were not for the vast potential oil areas, a decline of eight million barrels in producers' stocks would be a signal for bidding up the price of crude to much higher levels than exist at this time. Under present conditions it looks as though the oil producer will necessarily have to be satisfied with one reasonable boost in price — and hope that it will "stick" throughout the balance of this year. In other words, the oil producer is faced with the problem of producing his oil at a small profit, or operate at a loss, as many have been doing in the recent past. This applies particularly to those operators who have all settled production.

### Situation Shown in Chart

A better idea of the improvement that is taking place in the petroleum industry can be gained from a perusal of the accompanying chart. This shows the status of petroleum production in the United States from 1918 to the end of May, 1928. The black and cross-ruled areas express the daily average supply (production plus imports) in percentage of daily requirements. The base line, 100, represents the line of equilibrium (domestic and foreign requirements). The apparent improvement that took place during the latter part of last year was not sustained, for the reason that curtailment efforts were not accompanied with immediate success. This year the situation takes on a more encouraging aspect. Efforts to curtail production in the flush production areas are meeting with a fair degree of success and the unusually large demand for crude is making it possible for the industry to begin using its large above-ground supplies. Naturally, under such conditions, many of the large producing companies, possessing large inventories of crude, hesitate to withdraw from their stocks which may soon represent an appreciated value. It costs money to store oil for any length of time and an advance of a quarter a barrel will help to alleviate matters for all concerned.

The following tabulation gives the daily average production and imports of crude petroleum, compared with the daily average domestic demand and exports. The percentages used in the preparation of the accompanying chart are also shown.

**Crude Supply and Demand**

| | Production and Imports | Domestic Demand and Exports | Ratio of New Supply to Demand |
|---|---|---|---|
| | (Thousands of barrels) | | (Percent) |
| 1918 Year | 1058 | 1134 | 93 |
| 1919 Year | 1182 | 1168 | 101 |
| 1920 Year | 1500 | 1442 | 104 |
| 1921 Year | 1638 | 1456 | 112 |
| 1922 Year | 1885 | 1643 | 115 |
| 1923 Year | 2232 | 2010 | 111 |
| 1924 Year | 2163 | 2105 | 103 |
| 1925 Jan. | 2175 | 2186 | 99 |
| Feb. | 2155 | 2161 | 99 |
| Mar. | 2185 | 2207 | 99 |
| Apr. | 2251 | 2221 | 101 |
| May | 2430 | 2315 | 104 |
| June | 2413 | 2472 | 98 |
| July | 2320 | 2421 | 96 |
| Aug. | 2311 | 2530 | 92 |
| Sept. | 2315 | 2338 | 99 |
| Oct. | 2233 | 2294 | 98 |
| Nov. | 2227 | 2254 | 99 |
| Dec. | 2122 | 2290 | 93 |
| 1926 Jan. | 2076 | 2163 | 96 |
| Feb. | 2083 | 2178 | 96 |
| Mar. | 2190 | 2228 | 98 |
| Apr. | 2196 | 2313 | 95 |
| May | 2163 | 2276 | 95 |
| June | 2244 | 2399 | 94 |
| July | 2260 | 2417 | 94 |
| Aug. | 2318 | 2394 | 97 |
| Sept. | 2322 | 2373 | 98 |
| Oct. | 2352 | 2379 | 99 |
| Nov. | 2484 | 2499 | 99 |
| Dec. | 2486 | 2427 | 102 |
| 1927 Jan. | 2452 | 2423 | 101 |
| Feb. | 2573 | 2387 | 108 |
| Mar. | 2572 | 2429 | 106 |
| Apr. | 2555 | 2299 | 111 |
| May | 2608 | 2388 | 109 |
| June | 2619 | 2337 | 112 |
| July | 2683 | 2436 | 110 |
| Aug. | 2718 | 2502 | 108 |
| Sept. | 2674 | 2487 | 107 |
| Oct. | 2636 | 2495 | 101 |
| Nov. | 2637 | 2532 | 104 |
| Dec. | 2591 | 2538 | 102 |
| 1928 Jan. | 2531 | 2319 | 109 |
| Feb. | 2541 | 2414 | 105 |
| Mar. | 2623 | 2485 | 105 |
| Apr. | 2593 | 2527 | 102 |
| May | 2644 | 2632 | 101 |

### Demand Growing

It is interesting to note how the demand is growing and it is not difficult to realize that, even though it has been necessary to accumulate large above-ground supplies of petroleum, it will not take more than a year and a half to two years before the demand will make it necessary for the industry to utilize every barrel of oil brought to the surface. In the meanwhile, the producer must exercise patience and unite his efforts with those who are gradually bringing order out of chaos. Even though the future of the industry is bright, it will be well to proceed in a sane and orderly fashion. This is not a time to be carried away by enthusiasm and speculation — it is a period of readjustment that demands the co-operation of every individual connected with the petroleum industry. One upward revision in the crude market will be welcomed by many and should prove sufficient under present conditions. If we can hold the production curve down and prevent another oil flood, we can look forward to a greater oil demand next year accompanied by further improvement in the price structure.

In the February 17 issue of The Oil Weekly, the writer predicted a demand for 940 million barrels of crude during the present year. Thus far, it is evident that this demand will be fully realized. In that article it was pointed out that the net requirements from American oil producers would aggregate 880 million barrels. Since then, however, imports from Venezuela have been greatly accelerated, to the extent that approximately 20 million barrels of additional American oil will be displaced by foreign importation. This means that the probable quantity of American crude required will be pared to 860 million barrels. Present and future tendencies seem to indicate that domestic output will probably aggregate 866 million barrels for the entire year of 1928. If conservation measures continue to meet with success, we will probably produce even less than the amount indicated.

On the other hand, if sane judgment is not exercised in the economic adjustment of crude prices, we may encounter another drilling orgy that will result in a disastrous oil flood this fall. The industry, collectively, faces the ultimatum of emerging from its difficulties now, when the opportunity is at hand, or involving every individual producer in another period of depression which can assume even worse proportions than before.

There are still many factors in the oil situation that can exert adverse influences upon the industry. Perhaps the most serious one is that which concerns the rising tide of oil being tanked to the Atlantic seaboard refineries from Venezuela. This, coupled with competition from flush production areas of West Texas and California, will undoubtedly prevent any attempt at successive price boosts for Mid-Continent oil. In the face of these obstacles, however, the writer firmly believes that a reasonable adjustment in crude values in the Mid-Continent area will not have any serious effect upon the demand for those grades. Furthermore, such an advance should not have any material effect upon drilling activities. If the indications pointed out herein are at all reliable, we can expect one boost—and only one is safe—in those crudes produced in the Mid-Continent, Rocky Mountain and Central West fields. Once again, we approach a condition of stabilization—let's hope that it may continue throughout the balance of this year.

# Three Good Producers Added in Champagnolle Area

SHREVEPORT, La.—Drilling activity in the Champagnolle field was rewarded with the completion of three good producers during the past week, while an equal number of tests were abandoned after testing salt water below the deepest of the three producing sands in the field. At least twenty wells are now in the process of being tested in the area, a number of which have been tested at shallower depths and deepened.

Skelly Oil Company succeeded in bringing in J. M. Gregory 1 well, Section 15-17-14, as a 50 million cubic foot gasser, at 3051 feet, following a blow out at that depth two weeks ago which wrecked the derrick. This is the first large gas well in the field and is welcome as there has been a threat of a shortage of fuel supply. The two other completions were the Magna Production Company's Townsend 4, Section 10, depth 3234 feet, initial 1300 barrels of clean oil, and Skelly Oil Company's Perdue 1, Section 10 completed at 3252 feet as a 550 barrel producer. Addition of these two wells and slight increase as the result of restoring old wells, served to uphold the output of the field during the past week, the daily average yield showing a decline of only 455 barrels as compared with the previous week's average. The average production per well, however, dropped from 499 to 367 barrels.

Failures last week were within the producing area.

### Completions Due

At least nine new wells were drilled down to the top of the sand last week, and are now awaiting for casing to set. All nine of the wells are within the producing limits of the field. There are also several wells nearing the testing stage outside of the limits of production that stand a good chance of extending the field. Simroll et al's Findley 1, northeast corner of the south half of the northeast of the southwest of Section 12-17-14, approximately one mile east and south of present production, is the most important test in the area. This is an old test, originally abandoned at a depth of 3,179 feet, and it is now being deepened to the 3200 foot sand. It is coring at 3237 feet, after killing a small gas blowout at a lesser depth. Amerada Petroleum Corporation's Ezell 1, one half mile west of the Marr and Hooser Slade 1, recently completed as an extension of the field in a north direction, tested dry at 3295 feet, and will probably be drilled deeper. The Ohio Oil Company is making another attempt to establish production in southeast of the northwest of Section 11, in the vicinity of its two previous failures and in the area that has been fairly well condemned by previous drilling in all directions except to the east. Casing has been cemented in Lochner 3 at 3202 feet.

On the outside limits of the field, very little progress was made during the last week. E. C. Johnson Trustee has set 6⅝-inch casing in Gregory 2, Section 9, after coring streaks of broken oil sand from 3243 to 3246 feet. The same interests' Gregory 1, the first well drilled in this area, is setting liner to bail at 3259 feet. It tested only 75 feet of fluid at 3242 feet.

## Summary of Champagnolle Operations

| Company— | Locations | Derricks | Rigs | Drilling | Testing | Total |
|---|---|---|---|---|---|---|
| Amerada Pet. Co. | .. | .. | .. | .. | 1 | 1 |
| Brown et al | .. | .. | .. | 1 | .. | 1 |
| Barton et al | .. | .. | .. | 1 | .. | 1 |
| Crosbie, J. E. | .. | .. | .. | .. | 1 | 1 |
| Estes, O. W. et al | .. | .. | .. | 2 | .. | 2 |
| Garriett & Modisette | .. | .. | 1 | .. | .. | 1 |
| Gilliland Oil Co. | .. | .. | 1 | .. | .. | 1 |
| Hunt, H. L. | .. | .. | .. | 2 | 2 | 4 |
| Hamilton et al | .. | .. | 1 | .. | .. | 1 |
| Hollyfield et al | .. | .. | .. | 3 | .. | 3 |
| Johnson, E. C. | .. | 1 | .. | 1 | 1 | 3 |
| Jones, E. M. | .. | .. | .. | 3 | .. | 3 |
| Lion O. & R. Co. | .. | 1 | .. | 4 | .. | 5 |
| Magna Prod. Co. | 2 | .. | .. | 3 | .. | 5 |
| Magnolia Pet. Co. | 2 | .. | .. | 4 | .. | 6 |
| Marr, Pat | .. | .. | .. | 1 | .. | 1 |
| Marr, Joe | .. | .. | .. | .. | 1 | 1 |
| Mazda Oil Corp. | .. | .. | .. | .. | 1 | 1 |
| Mellor Trustee | 1 | .. | .. | .. | .. | 1 |
| Murdock, C. E., Inc. | .. | .. | 1 | 2 | 1 | 4 |
| Ohio Oil Co. | 1 | 1 | .. | 5 | 3 | 10 |
| Oil Well Corp. | 1 | 1 | .. | 9 | .. | 11 |
| Patterson et al | .. | .. | .. | 1 | .. | 1 |
| Pure Oil Co. | 3 | 1 | .. | 5 | 2 | 10 |
| Reliance Drlg. Co. | .. | 1 | .. | .. | .. | 1 |
| Root Ref. Co. | 1 | 3 | 1 | 1 | 3 | 9 |
| Roxana Pet. Corp. | .. | .. | 1 | .. | .. | 1 |
| Rovenger Oil Corp. | .. | .. | .. | 3 | .. | 3 |
| Rushing et al | .. | .. | .. | 1 | .. | 1 |
| Simroll et al | .. | .. | .. | 1 | .. | 1 |
| Skelly Oil Co. | .. | .. | .. | 4 | 1 | 5 |
| Sun Oil Co. | .. | .. | .. | .. | 3 | 3 |
| Tharpe Drlg. Co. | .. | .. | .. | 1 | .. | 1 |
| Timberlake et al | .. | .. | .. | 1 | .. | 1 |
| The Texas Co. | .. | 1 | 1 | .. | .. | 2 |
| Walker et al | 1 | .. | .. | .. | .. | 1 |
| Total | 12 | 9 | 7 | 60 | 20 | 106 |

### CHAMPAGNOLLE PRODUCTION

| Company— | No. of Wells | Daily Prod. July 20 Bbls. | Daily Prod. July 12 Bbls. |
|---|---|---|---|
| Estes, O. W., et al | 1 | 144 | 150 |
| Hunt, H. L. | 3 | 850 | 398 |
| Jones, E. M. | 2 | 300 | 400 |
| Lion O. & R. Co. | 3 | 1,622 | 2,115 |
| Marr & Hooser | 1 | 610 | 410 |
| Magnolia Pet. Co. | 1 | 280 | 278 |
| Magna Prod. Co. | 7 | 4,372 | 4,387 |
| Murdock, C. E., Inc. | 3 | 605 | 245 |
| Ohio Oil Co. | 8 | 76 | 73 |
| Pure Oil Co. | 9 | 3,460 | 4,212 |
| Rovenger Oil Corp. | 1 | 1,630 | 2,056 |
| Root Ref. Co. | 1 | 300 | 350 |
| Rushing et al | 4 | 1,996 | 1,915 |
| Skelly Oil Co. | 1 | 289 | (New well) |
| Total | 45 | 16,534 | 16,989 |
| Average production per well | | 367.4 | 499.6 |

# PERSONAL MENTION-MEN YOU KNOW

**E. R. Perry,** vice president and general manager of Cosden & Company prior to the sale of this organization to Mid-Continent Petroleum Corporation, has recently become associated with J. S. Cosden in his new refinery project in Howard County, Texas. Mr. Perry is president of the Exploration Company at San Angelo. In going with Mr. Cosden again he will be associated with W. D. Richardson, who will be manager of the new Cosden refinery, ready for construction. It will be supplied with crude from the surrounding district, principally through a line proposed from the Howard County production. Following Mr. Cosden's return to the producing business one of his first blocking campaigns was for acreage in Howard County.

**C. U. Daniels,** head of the land department for the Sinclair Oil & Gas Company in the North Central West Texas district, has resigned to re-enter the oil business as an independent. Daniels was an active independent wildcatter in the North Texas district with headquarters at Wichita Falls, before joining the Sinclair organization, and will continue to make his home in Fort Worth.

**Bob Bradshaw,** of the International Supply Company's Tulsa office, is spending a vacation in Colorado.

**Hal Gruber,** vice president of the Union Wire Rope Company, Tulsa, has returned from a two weeks' trip to the Texas oil fields.

**R. R. Barlow,** of the Independent Oil and Gas Company at Tulsa, and Mrs. Barlow are in Colorado on a vacation trip.

**Roy Dow,** sales manager for the International Supply Company, Tulsa, is in West Texas in the interest of the company.

**John F. Ferguson,** district geologist for Amerada Petroleum Corporation in the Texas Panhandle with headquarters at Amarillo, visited the Fort Worth district offices of his company early this week.

**Fred B. Plummer,** chief geologist for the Vacuum Oil Company in the West Texas district with field headquarters at Midland, departed last week, accompanied by his wife, for a vacation trip to Toronto, Canada.

**A. B. Smith,** president of the Pandem Corporation, Dallas, spent several days in Tulsa last week.

**W. F. Gates,** president of the Prairie Pipe Line Company, Independence, Kansas, made a trip of inspection of the Prairie's line system throughout the Seminole territory. This company now has 18 miles of eight-inch line under construction between its Little River gathering system and the company's main line from Wewoka to Shawnee.

JOHN D. CLARK
*of Denver, Colo., President of the Midwest Refining Company and a member of the board of directors of the Standard Oil Company (Indiana).*

**J. C. Durnell,** a pioneer in the oil industry in the New York and Pennsylvania fields and well known throughout Oklahoma and the Mid-Continent, died recently at his home in Bolivar, New York. He was the father of H. G. Durnell of Bartlesville, Oklahoma, vice president of the Union Machine Company. The elder Durnell early became attracted to the oil industry and when but a boy began work near Oil Creek and later was active in the Bradford field of Pennsylvania. He followed the course of the oil development through West Virginia and Ohio and into the Mid-Continent area.

**M. B. "Jack" Johnson,** branch manager of the Tulsa office of the American Tank Company, is vacationing in Texas.

**Noyes B. Livingston,** who has been associated with Roy A. Reynolds in geological consulting work with offices at Fort Worth, is now with the Fort Worth geological staff of The Texas Company.

**Barney P. Fenoglio,** a veteran employe of the Empire Gas & Fuel Company, who resigned recently as head of the land department in Texas with headquarters at Fort Worth, has entered the oil business as an independent operator and will remain in Fort Worth. L. W. "Buddy" Lowe, who has been in charge of the Panhandle activities of Empire, has succeeded Fenoglio.

**J. E. Hare,** formerly vice president and general manager of the California Gasoline Company, and E. G. Starr, formerly vice president and assistant general manager of the same organization, have opened offices in the Subway Terminal building, Los Angeles.

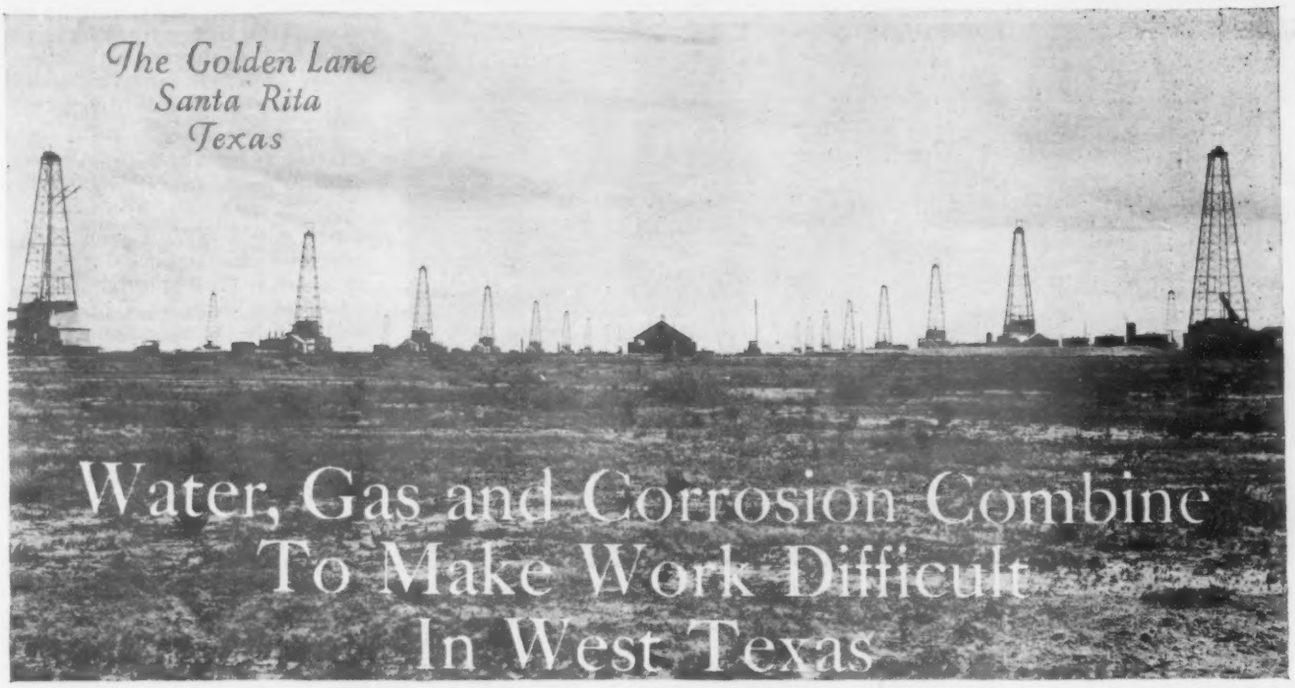
**H. W. Parmelee,** superintendent of the California Gasoline Company, has resigned, effective at once, and has accepted a position with the Lovell Gasoline Company.

**L. M. McNaughton** is now associated with the Rycade Oil Corporation as geologist. Formerly he was with the Humble Oil and Refining Company as field geologist in the East Texas district.

The O. C. S. Manufacturing Company of Coffeyville, Kansas, announces the opening of an office in Tulsa, at 1410 Philtower Building. J. W. McKewon, district manager for the company, will be in charge of the new office.

Republic Supply Company, with headquarters at Houston, announces the opening of a supply store at Maud, Oklahoma.

Enid, Okla.—Roxana's Rouse B-1, in the northeast corner of Section 19-19-4w, the deep field of northwestern Logan County, flowed 799 barrels July 19 from sand topped at 6063 feet and drilled one foot. Preparations were under way at that time to continue deepening. This well is a north offset to Ross 1, which has averaged around 550 barrels daily for the past three months from this deep horizon.




# Water, Gas and Corrosion Combine To Make Work Difficult In West Texas

By A. R. McTEE
*Staff Representative*

ULTIMATE engineering skill is demanded in developing such an oil area as exists in West Texas. The dozen pools making up the district require the solution of at least as many problems as any other area in the world perhaps, and any one of the fields presents difficulties out of the ordinary. From the Yates pool located almost entirely in a rugged section of Pecos County to the Hendrick field in Winkler County, which occupies a sand bed popularly called, in the field, "The Great American Desert," the operator meets resistance. Isolation, lack of water, water unfit for use, immense quantities of bottom water, poison gas, acute corrosion troubles, bad oil, unpleasant living conditions, expensive road building programs—these and many other problems have to be brought out as the companies proceed in West Texas.

Happily the disadvantages are distributed. If they were concentrated in a single field that field would develop very slowly. As it is, operators have not had more than two major obstacles to contend with at one time. Had this not been the case the important place in the industry now held by West Texas would have been reached sooner than it has.

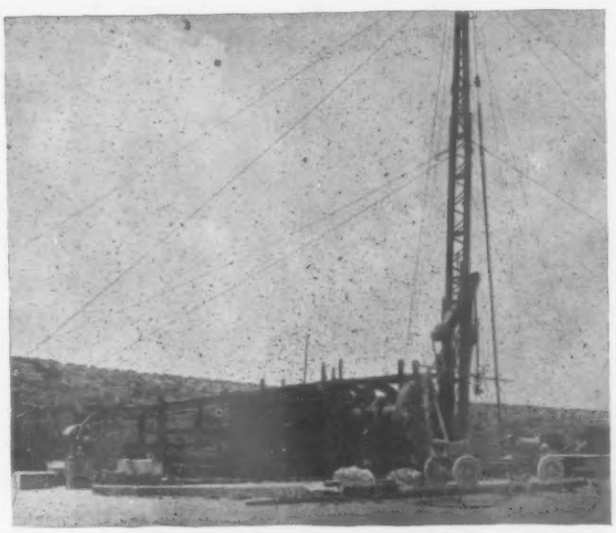
Not all the obstacles have been removed, but some have been solved sufficiently to be of little consequence any longer. Others are being handled better each year.

### Hendrick Field

The water problem is uppermost in the Hendrick field at this time. Nearly all the wells are making water with the oil in percentages ranging from less than five to 100. Proration was put into effect with the hope that flowing the wells on back pressure would cut down water difficulties. Restricting the wells has been an aid but the formation was so badly impregnated with water before proration was begun that results are far from satisfactory. Engineers in the field agree that the water intrusion is serious. There is little hope of being able to exclude the water. Thus the problem becomes one of tking what oil can be had with the minimum volume of water that can be handled.

Water appeared in the Hendrick pool for the first time about the first of the year in the Pure Oil Company's Hendrick 1, Section 41, Block B-5, PSL. Due to lack of storage the well was kept pinched for a few weeks. Upon being opened later it made 100 per cent. water and then began making about half oil. Within a short time practically every lease in the field was troubled with water, except those to the extreme north.

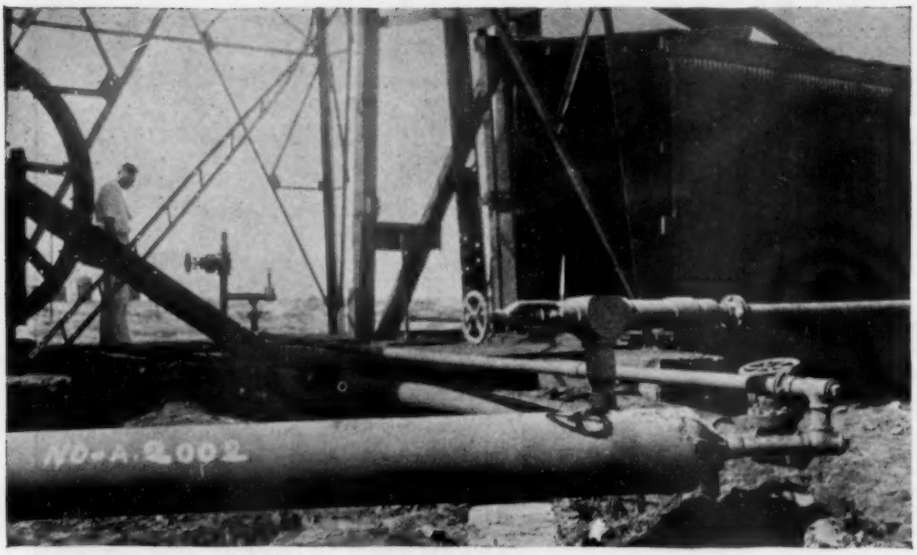
There is divided opinion about the source of the water. Many operators believe it to be bottom water, but there are some who think otherwise. Inasmuch as the formation is connected vertically and horizontally by fissures and cavities, there is no way of finding out where the water is coming from. Analysis have revealed nothing about the source. Opinions vary also as to whether the water is salt or sulphur. This is difficult to determine since the oil contains sulphur.



*Portable Drilling Machine on the Gulf Production Company's lease, Yates field.*

### Handling Water

Operators in the Hendrick field have developed a water trap which is being used successfully on wells making less than 1000 barrels of water. On larger capacities the trap is impractical. This trap enables the water to be taken off before the well is pinched, thereby reducing the danger of cut oil. The trap consists of five joints of 12½-inch pipe welded together and swaged at both ends. The lower end is fitted to form an outlet for the water. At upper end there are two openings: one for the incoming fluid from the well and another on top of the trap through which the oil flows to the gun barrel tank or to the treating




*Detail of water trap used in the Hendrick field, showing fluid intake from the well and the oil outlet fitted up with a Shaffer flow bean.*

units. The outgoing oil is fitted with a Shaffer flow bean so that production may be kept pinched.

A number of these traps are in use in the field and have been found efficient in handling limited amounts of water.

### Treating

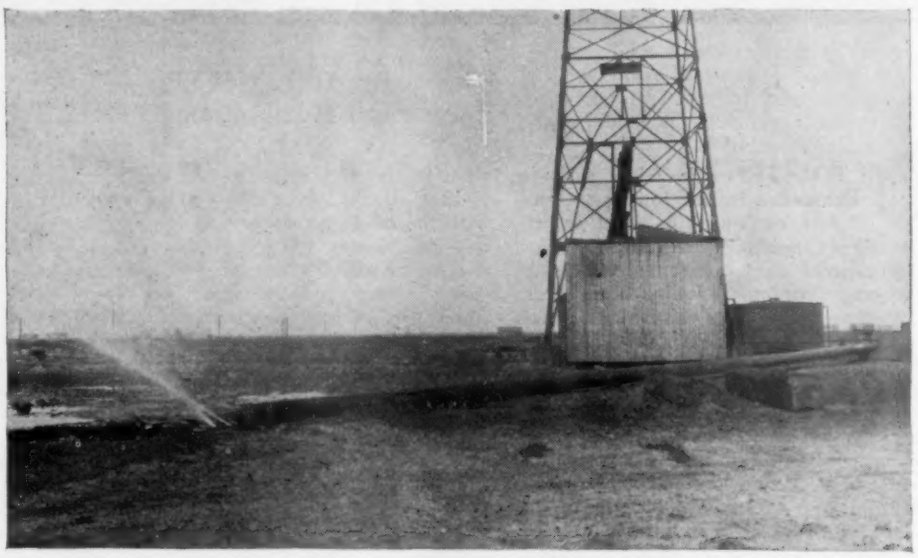
Fortunately the oil separates from the water readily. Commercial treating compounds are used in most instances. During the winter it becomes necessary to heat the oil slightly. In the summer months the water will drop out within 24 hours without any heat being applied.

There are a few dehydration units installed in the field but the need for them is slight.

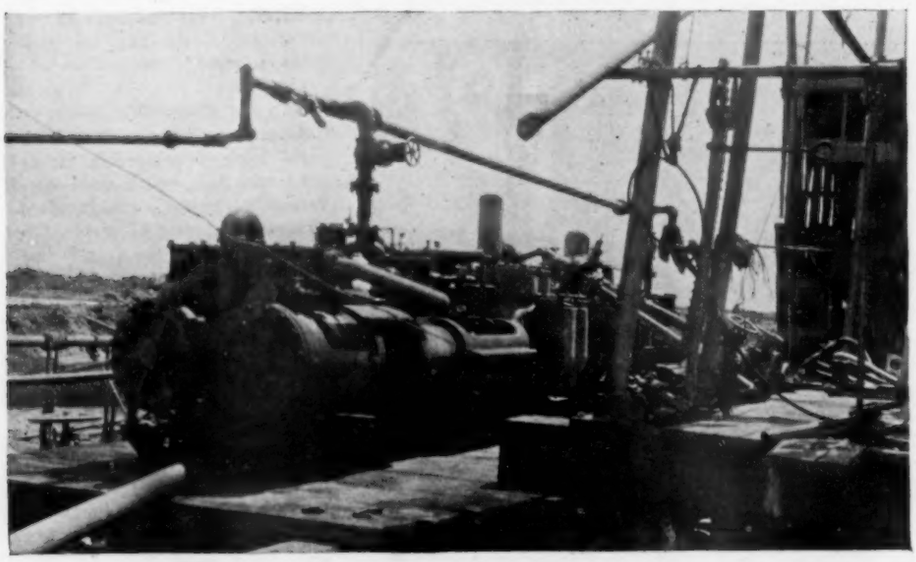
### Routine Field Methods

Drilling in the Hendrick field varies little if any from lease to lease. As compared with other rotary districts, however, there are some differences.

Formations in the order encountered are about as follows: caliche, sand, gravel, red beds, Barstow sand, anhydrite and red beds, salt, anhydrite and lime. Surface casing is set on the Barstow sand. The hole is then reduced to 12-inch, then nine-inch or 8⅝ on to the lime. Some operators run a string of 6⅝ to the top of the pay. The pay ranges from 350 to 850 feet in the lime. When the bit strikes the lime drilling is continued until porosity is found, and this depth varies in different parts of the field. The lime is drilled with cable tools where pressures permit. Rock bits are used exclusively. The pay is drilled with a core barrel by many operators. Production is



*Water trap in use on Southern Crude Oil Purchasing Company's lease, Hendrick field*



*Worthington Slush Pump, Gypsy type, on Humble Oil & Refining Company's Walton lease, Hendrick field*

through open hole, no pipe of any kind being used after the lime is topped.

Nearly all the wells flow but a few are on the beam. Three-inch tubing is used in pumping wells. Power is from electric motors hooked up in the usual manner.

Gas in the Hendrick field averages between three and four per cent sulphur.

Unlike the other fields of the Permian Basin, Hendrick has an abundance of water at shallow depths. This solves the water problem for drilling and for camp purposes. The water tests 99 per cent pure.

### Drilling Mud

Strange as it may seem, in spite of the fact that there is an abundance of water, drilling mud has to be brought into the field. As stated before, the field is in a

great sand bed and there is no dirt for mud available. Clay is hauled in in sacks from the Pecos River valley, about 40 or 50 miles away, and from El Paso. The cost ranges from eleven to fifteen dollars per ton delivered at the field.

Drilling is considered "hard" all the way down in the Hendrick field. Much caution has to be used to prevent blowouts on account of high gas pressures. These pressures reach 1600 pounds in many wells. Baroid is used in the high pressure areas.

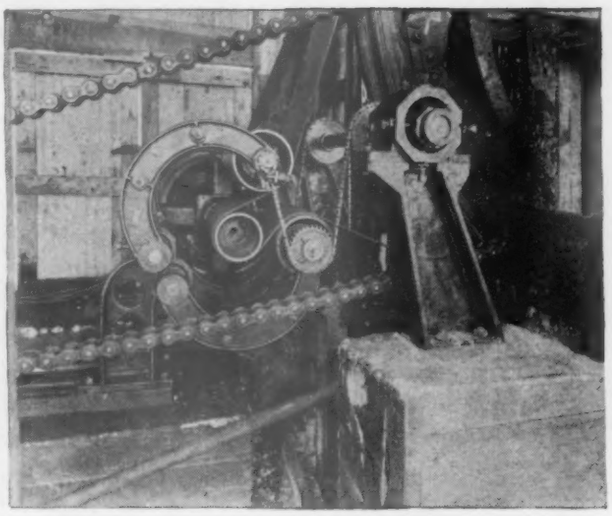
The most persistent problem in drilling is that of keeping returns. Because of the cavities so frequently encountered, lost returns cause more delay and annoyance than any other cause in putting down the wells. Tons of cotton-seed hulls are used to fill cavaties, as well as enormous quantities of cement. The cement is usually siphoned in. As many as 700 sacks of cement have been used on one well in trying to get through the cavities.

Casing is cemented on top of the Barstow sand and on top of the lime. About 500 sacks of cement is the average for each of the jobs.

Output of the wells in the Hendrick pool ranges from 500 to 20,000 barrels. The proven acreage now consists of a strip about two miles wide by 11 miles long.

### Getting Through the Sand

Chief among the problems confronting the Hendrick operators is that of getting through the sand, especially to new locations. Average depth of the sand throughout the field is about seven feet. Occasionally there are outcrops of caliche to give a temporary footing but these are relatively few.



*Pulmax pumping device installed on Humble Oil & Refining Company's University lease, Crane County*

Hauling is done by teams, trucks and tractors. The first step in building a road is to go over the route with a tractor and trailer which carries a tank of heavy crude oil. This is sprayed on the sand. Then a tractor follows, packing the sand as much as possible. Then a truck will try the road and if it gets through a rut is left which enables passenger cars to make it.

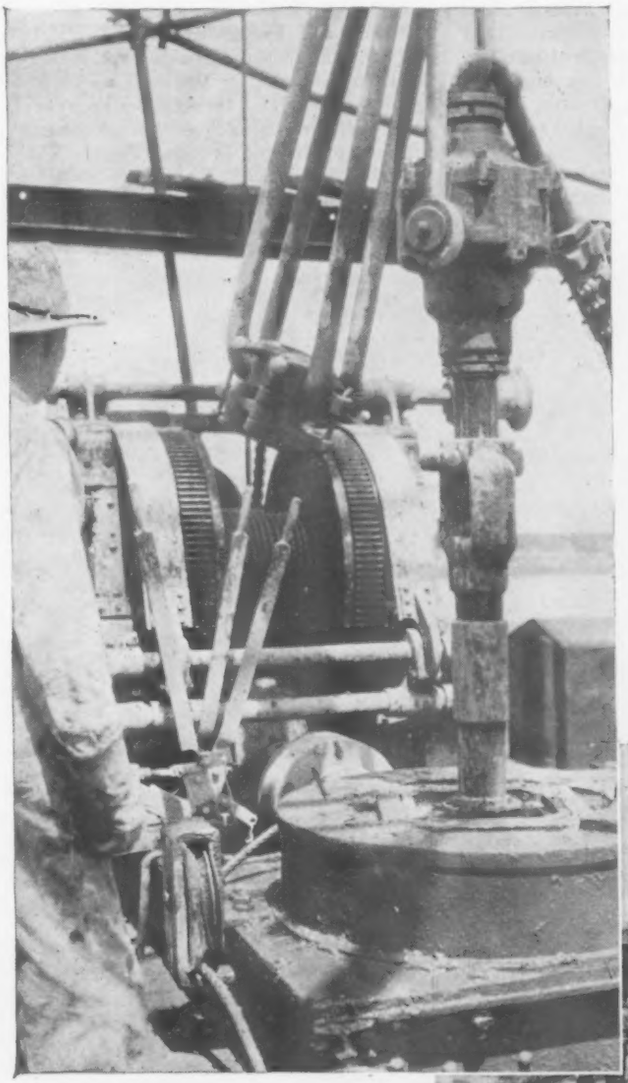
Crawler tractors have been the salvation of operators in the field, for they are used for every conceivable transportation problem. It is not an uncommon sight to see a tractor moving along pulling a trailer with one joint of pipe, a single spool of wire rope, or some other single item, and that one item generally makes a good load. The tractors go through the sand with little difficulty.

The sand is so loose that it will not pack unless oil has first been soaked into it. This serves a double purpose: an oiled road is a safe one and the black streaks are readily followed. If one driving a car ever leaves the rut, woe is his! Shovels are of little help since the sand is so dry and loose that it fills in as fast as it is moved away.

### Roxana Hook-Up

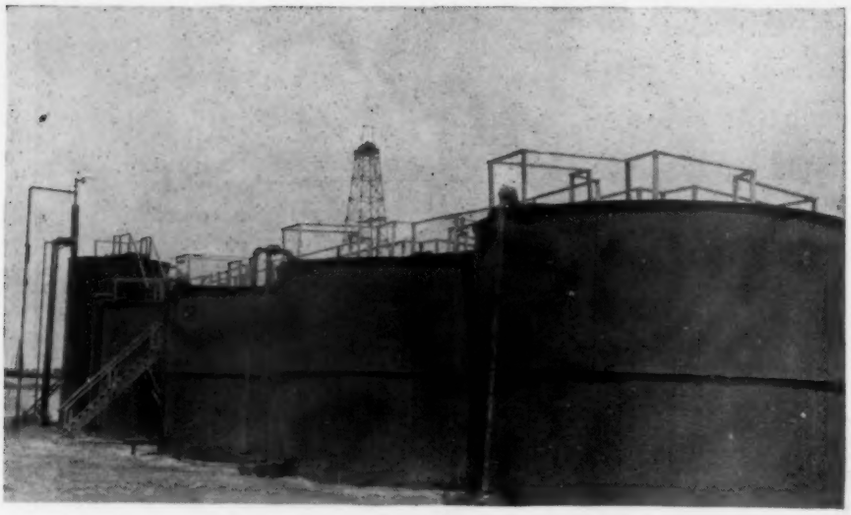
As an aid in controlling the output of wells on proration, A. S. Field, in charge of operations for Roxana Petroleum Corporation in Winkler County, has developed a special hook-up. Some of these are now being installed on Roxana's property.

Briefly described the hook-up consists of a Regan casinghead, a flanged master gate valve, a long-sweep tee



*Above—Sheldon Burden rotary in operation on Humble Oil & Refining Company's T. G. Hendricks No. 9, Hendrick field, Winkler County.*

*Right—Drawworks of Sheldon Burden rotary on Humble Oil & Refining Company's T. G. Hendricks No. 9, Hendrick field.*



*Field storage tanks showing the safety platforms provided for gaugers*

with a six-inch flange in the sweep, an upper gate valve, a casing clamp, a bull plug and a pressure gauge. A six-inch flow line is flanged to the long sweep tee. The flow line is fitted with an adjustable choke by-pass. A Y-connection is provided for one or two gas traps and the traps are hooked up on a 45 degree angle. Connections are also provided by which the traps can be by-passed.

Mr. Field has also worked out an oil saver for use on high pressure wells. The saver has been successful on pressures as high as 2500 pounds. The essential part of the saver is a stuffing box for the wire line with slip clamps in the top. The box screws on a steel plunger which the line goes through. The plunger is supported by two cast iron liners. These are held in steel jackets with a ball turned in the center. This ball acts as a ball-and-socket joint and allows the plunger to move back and forth as the beam moves. The inner body of the saver consists of two halves, studded. The joints are fitted like the bearings on a car, assuring a tight fit. Tests with the saver have never shown any gas leaks. A rubber ring fastens in the outer body of the saver. When the tools are snubbed in gas or oil gets behind the rubber ring giving an automatic seal. The tools are sealed off and the more the pressure on the ring the tighter the seal becomes. These savers are being used on Roxana's Hendrick property also.

The Roxana crews drill wells through a special stuffing box designed to hold the wells in. This box consists of a drilling head made for the Kelly. It swivels with the Kelly and acts as an effective packer.

Most equipment manufacturers are represented in the Hendrick field and there is little departure from the usual set-up at the drilling rigs. Two installations on the Humble Oil and Refining Company's property deserves mention:

On J. B. Walton B-1, now drilling, Humble has installed a Worthington slush pump, known as 12 and 18 by 7¼ by 18 Worthington Duplex Compound Slush Pump, Gypsy type. This pump is the largest in the field and is in use in an area which has high gas pressure. The pump is capable of developing an output or discharge pressure of from 600 to 750 pounds on about 200 pounds of steam. Much higher pressure can be obtained from the pump, the Humble superintendent stating that 1600 pounds is possible. This much pressure from one pump on a relatively small amount of steam is a big advantage when working with a well where gas pressure runs high.

A special feature of the pump which makes it adaptable for use in high pressure territory, according to the Humble superintendent, is the cross compound motion. Connections are provided for admitting live steam direct to the low-pressure steam cylinders.

Humble is also drilling its T. G. Hendrick 9 with a type of rotary, new to the West Texas country. This is the Sheldon-Burden. The outfit is capable of drilling to 4000 feet and weighs slightly over 10 tons. The rotary table is driven by a shaft on self-aligning ball bearings through a friction clutch. Speed of the table varies from as slow as desired to 300 r.p.m. The hydraulic feed has a stroke of 24 inches up and down and, with 500 pounds pump pressure, is said to exert a force of 40 tons.

An automatic cathead operated by a friction clutch is provided.

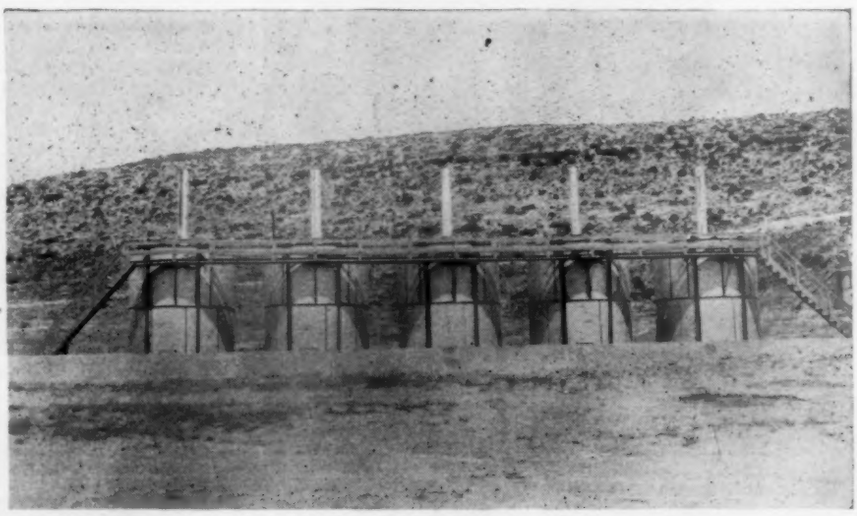
The hydraulic feed is an attachment which fits inside the rotary table and is said to control the feed. If a change in formation is encountered, or if the changed structure should lay at a different angle, the driller can retard the feed until a proper seat is made. The hydraulic also acts as a weight indicator.

The machine when working as a straight rotary drives a grief stem or Kelly, by the regulation drive bushing. When it is desired to place the hydraulic in the rotary, the bushings are withdrawn and the hydraulic made up inside the rotary table.

**Church and Fields-McElroy District**

Throughout the Church and Fields-McElroy district in Crane County interest is centered largely on recovery methods, inasmuch as a minimum amount of drilling is being done. The field has been defined and new drilling is on inside locations.

Most of the air plants which were put into operation about a year ago have continued to operate, some of them at capacity, others considerably below capacity. On The Texas Company's Landreth strip lease, three wells are being blown. This lease has the largest air plant in the field.



*Battery of storage tanks in Yates field, showing safety vents used to cut down poison gas dangers*

The Warner-Quinlan Company of Texas has four wells on air. Total production from the four wells is 1500 barrels. The average foot-barrel ratio on the wells in the order of their output is as follows: 400 barrels of oil, 525 feet of air; 600 barrels of oil, 800 feet of air; 325 barrels of oil, 700 feet of air; and 200 barrels of oil, 1050 feet of air.

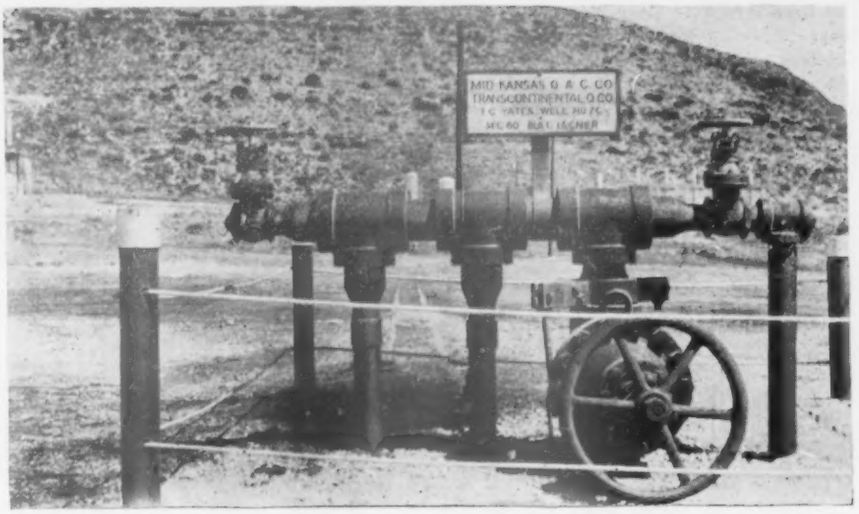
Humble Oil and Refining Company

also has four wells on air and is recovering about 1500 barrels of oil from the four wells. The ratio in these wells averages between 700 and 800 feet. For example, No. 3 University showed the following records for March, April and May: Production in March, 9716 barrels, input volume of air, 6,586,000 cubic feet; production in April 9090 barrels, input volume of air 6,528,000 cubic feet; production in May, 8218 barrels, input volume of air, 6,463,000 cubic feet.

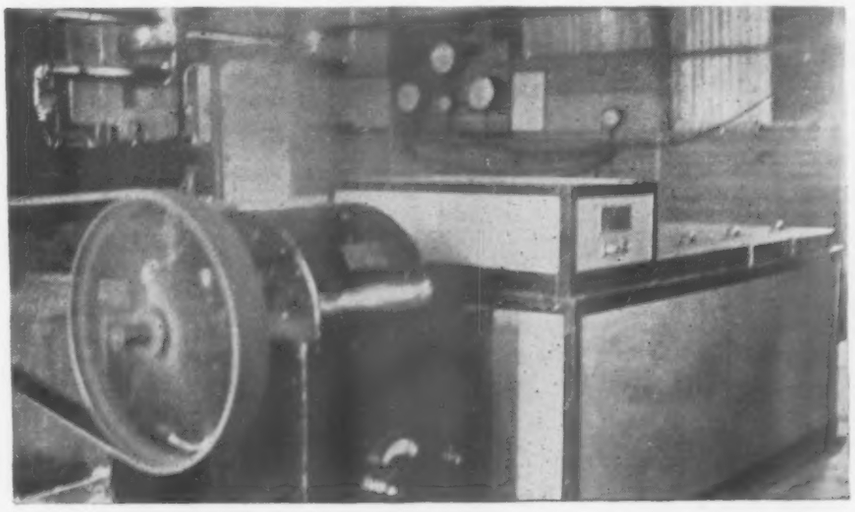
The other wells show similar records, varying as their production.

Experiments with air-lifts in the field have proven satisfactory in most instances and undoubtedly much more oil would have been recovered by this method had not the period of low prices set in just as air and gas lift was getting a foothold in the field.

Humble is experimenting with a new type of drive for pumping on the standard rig which promises to be efficient. The present installation is the first of its kind in the oil fields and details are still being worked out. The outfit is called the Pulmax and is made by the Bird Machine Company, South Walpole, Massachusetts. A double idler is the principal feature of the device. The idlers are pulled together automatically by weights which operate as the load varies.




*Typical flowing connection as used in the Yates field*



*Refrigeration machine in Humble Oil & Refining Company's air plant, University lease, Crane County. Ice for the entire lease is provided by this installation*

The Pulmax is driven by a 50-20 General Electric Oilfield motor with a six-inch pulley, and sets within three feet of the bandwheel. Its principal advantage is that it gives a compact arrangement, provides a maximum arc of contact for the driving belt, eliminates one long bandwheel belt and does away with the countershaft. Humble has found the device equally as good for pulling the well as for pumping. Belt slippage is eliminated and the fast reverse makes for time saving in the pulling operation.

To further reduce the danger from fire, Humble is enclosing all the slip-rings on motors used in the field. Controls on all wells are also being moved back 150 feet from the wells to cut down the fire hazard.

### Water in Church and Fields Pool

Bottom water has been increasing in the Church and Fields pool and now ranges from one to 30 per cent of the production in various wells on the east side of the field. The leases affected so far include: Warner-Quinlan's University lease; Atlantic-Simms' "C" lease; Prairie's H. A. Lasiter lease; and Magnolia's Hardwick "C" lease.

Chemical and electrical methods are both used to treat the oil.

The McCamey area was practically drilled up during 1926 and since that time there has been little development. Chief operating troubles center around corrosion and water. Treating methods are the same as in the fields already described and experiments to combat corrosion will be detailed later.

### Yates Pool-Pecos County

The Yates pool in Pecos County has often been referred to as the realization of the producers' dream for a perfect field. Were it not for the topography, this would be literally true. There are few fields where production is obtained at such a shallow depth in such quantities as at Yates. But the rugged country is the proverbial "fly in the ointment" or "thorn in the side," whichever one prefers. Wells have been drilled on the sides of canyons and on top of the mountains in exceedingly difficult locations. Most of the subsequent drilling will be on other such locations, and getting to these with material is a problem of no small magnitude.

Roads in the Yates field have cost as much as three dollars per foot and on some of the locations yet to be drilled, this cost will undoubtedly be increased. Riding through the field one sees many white streaks up the side of the hills, some not more than three or four hundred feet long, that have cost as much as $15,000 to build. Nearly all of these roads have to be blasted out of rock.

The section of the field with heaviest production is situated in the mountains. These mountains are several hundred feet high and some are steep.

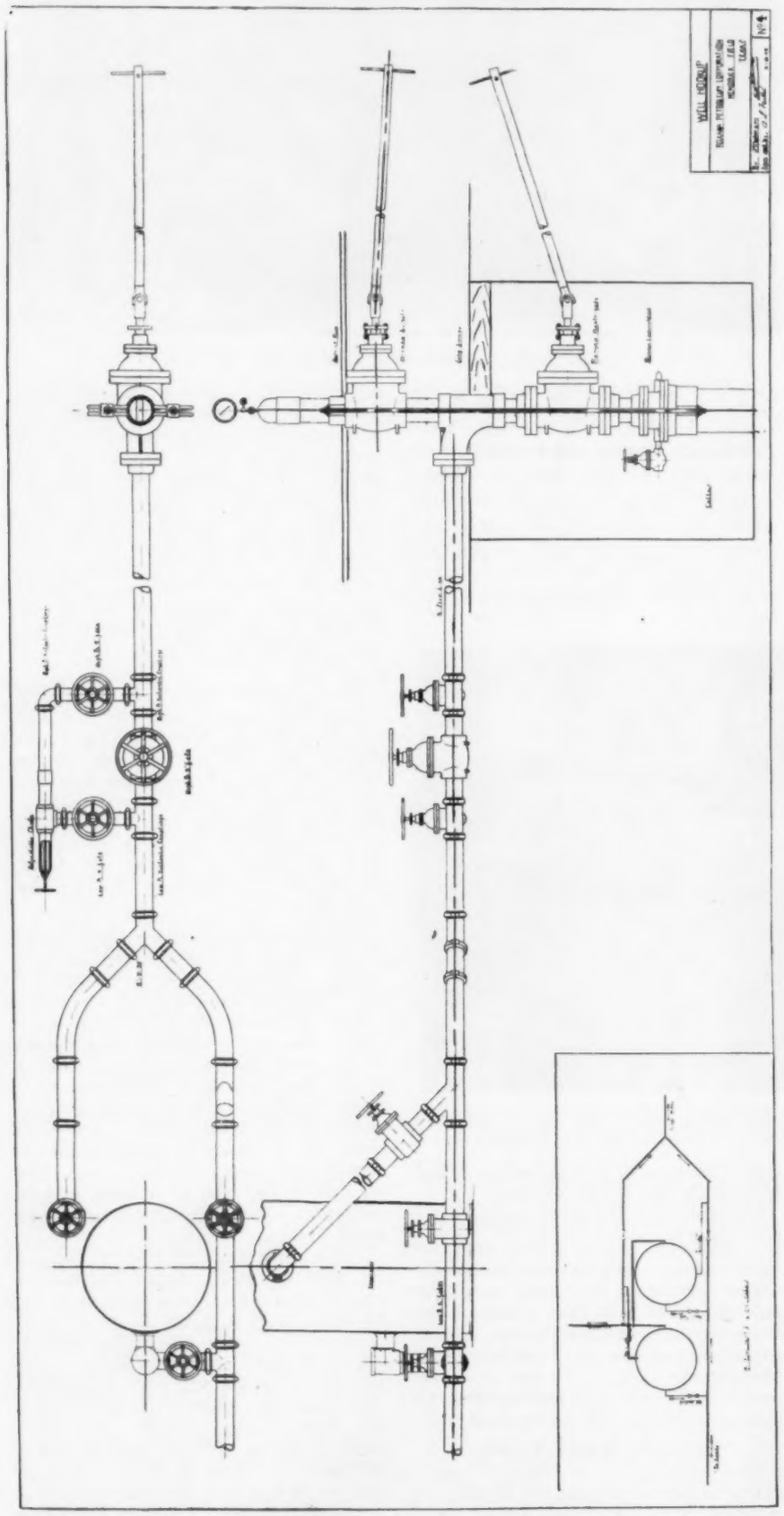
The cost of building a road to a location has to be charged to the cost of the well and in many instances at Yates, the roads have cost more than wells themselves. One superintendent estimates the average cost per well in the field at $20,000. In nearly all instances at least one-third of this amount is the cost of a road, and in numerous cases the percentage runs much higher.

Other than road-building, there are few problems in the field. The proven area is now about seven miles wide by 11 miles long, and the limits of production have been practically defined.

The rugged character of the country has led operators to drill with portable machines where possible. Holes are started with 15-inch casing and surface casing is cemented at about 400 feet. The hole is then reduced to 12½ or 10-inch and this size is carried to about 1150 feet. Eight or eight and a quarter-inch is then set on top of

the lime which is found at about 1450 feet. Most operators drill from 200 to 225 feet into the lime to get the pay.

So far there are not more than three or four pumping wells in the field and these are on the edge. The wells range in size from a few hundred barrels to as high as 65,000 barrels. Pressures average about 400 pounds on closed-in wells. The average flowing pressure for a 500-pound well is about 250 pounds.



*Hook-up designed for wells being flowed under proration now in use by Roxana Petroleum Corporation, Hendrick field*

Considerable wildcatting was done in the Yates territory with electric drilling outfits. Power has been available since the field was a few months old and electric rigs have been used by several companies.

Good water is found at depths ranging from 180 to 750 feet. Wells are drilled on top of the mountains, the water pumped into tanks and then flowed by gravity to wherever it is needed.

Most of the storage tanks in the field are painted with aluminum paint and are fitted with vents extending about six feet above the top of the tank to cut down the danger from poison gas.

When wells are completed they are fitted up with a master gate valve the same size as the casing. Production is obtained through bean chokes ranging from 5/32 to 7/16 inches. There are relatively few derricks in the field.

There has been some water trouble in the field, principally along the eastern edge. Flowing the wells against strong back-pressure has largely controlled this problem, however, and at this time there is a negligible amount of intrusion.

Yates oil is of a higher quality than generally believed. Analysis have shown it to be of napthene base, suitable for the production of anti-knock gasoline.

Since early in the life of the field proration has been in effect there and the highest daily recovery so far has been 65,000 barrels, the amount now being run.

Many operators are skeptical about the field doing this well. It is quite generally believed that if the wells were allowed to flow wide open the head would be off within 30 days and the daily average would be far below 2,000,000 barrels. Inasmuch as proration seems well established in West Texas, it will probably be a long time before definite information as to just what the field will actually make is obtained.

### Corrosion Experiments

Corrosion in West Texas is very much like the weather: much is said about it but very little is done about it. The industry has heard statement after statement regarding the unusual corrosive action of West Texas crude. Most of these statements have been founded on facts and have had some truth in them, but some of the information has been contrary to experience.

Crude in certain districts of West Texas is worse than in others: The McCamey and Church and Fields areas, for instance, have the worst gas and also the crude with the worst corrosive elements. Any of the operators in these fields will testify to corrosion troubles—engines shot to pieces within a short time, strings of tubing eaten up within two months, storage tanks going to the bad now, etc. On the

(Continued on page 124)

# Sulphur Crudes Fast Losing Bad Reputation

## In addition to not being as bad as they smell, West Texas crudes have value in anti-knock gasoline quality to offset other objections

By GEORGE REID
*Staff Representative*

CRUDE OILS produced in the various fields of West Texas have come "into their own." With increased use by an ever increasing number of refiners these so-called "sour" crudes are by sheer merit, offsetting and discounting the evil reputation which preceded their present wide distribution.

It will be recalled that the oils from Mexico, then Mexia, and Smackover, and later the Panhandle crudes were subjected to the same adverse criticism and ill repute because of their sulphur content or because of the presence of some hydrogen sulphide gas. West Texas crudes, because of their higher content of hydrogen sulphide, were generally classified as the "worst yet," despite the fact that the mere presence of hydrogen sulphide in a larger percentage than occurred in other oils offered but little difficulty of removal or handling to the refiner who had experience with other crudes of a similar type.

### Refinery Yields

The refinery processing systems secure the usual list of products from the West Texas oils, including gasoline, kerosene, fuel oil, and some of the crudes yield lubricating oil cuts in quantities ample to justify their manufacture. Gas oils, engine and stove distillates, and overhead fractions for charging to the cracking units are available. Cracking the fuel oil presents little difficulty. Skimming plant recovery averages from 25 to 30 per cent straight run gasoline, with recoveries reported as high as 60 per cent when the gas oil and fuel oil are subjected to the cracking operation.

In addition to the present distribution of the crudes throughout the refinery districts of the United States, another indication of the acknowledged valuable characteristics of the crude lies in the fact that almost weekly there is announced new projects, or improvements in present systems, for larger facilities for handling the production of the fields and transporting it to the large refining centers. The popularity of the Yates and Hendrick fields production and the increased demand for the oil from these fields is traceable to the fact that the gasoline content of the crude is of relatively high anti-knock value. Some refiners report that gasoline derived from Hendrick crude has a 42 per cent benzol equivalent. This quality lends itself admirably to the policies of the major refining interests who are wide distributors of anti-knock, or premium grade, motor fuels.

### West Texas Plants

Refining interests have taken their equipment to the source of crude supply with the result that West Texas is now generally classified as a separate refining district. With 20 plants in operation and five building, the district assumes the importance of a one hundred thousand barrel refining center. Two or three more large projects are being formed which will swell the daily capacity to perhaps 125,000 barrels by the end of the year. Low priced crude oil has been contracted for in many instances of the balance of the year with some contracts extending over 1929. Most of the smaller plants and some of the larger installations are making a specialty of fuel oil and operating primarily as topping plants. The resulting daily production of gasoline is finding its way to market as far north as the Canadian boundary and as far east as Ohio. The largest refiner in the area at present is Humble Oil & Refining Company with its 5,000 barrel plant at San Antonio and its plant at McCamey where 25,000 barrels were being topped daily last week with plans to increase to 30,000 barrels per day.

### Little Refining Difficulty

A recent visit including inspection of the majority of plants operating in the West Texas visit disclosed the fact that these operators were experiencing little difficulty in the preparation of their products in so far as corrosion of equipment and the quality of the products is concerned. The chief difficulty is one of desulphurization and this problem is not one of a serious nature as hydrogen sulphide is, in most cases, the source of trouble. The desulphurization of the gasoline is easily accomplished through the use of the common chemicals generally employed for treating purposes.

Some refiners are of the opinion that over a long stretch of time the processing of the crudes of this district will require more equipment through wear and tear than would be refining of a like amount of "sweet" crude. On the other hand other refiners state that by the usual neutralization methods the life of their equipment will be prolonged to compare favorably with experience in refining sweet oils. Neutralization with soda ash or caustic in the stills is practiced and seemingly attended by marked success. Reagents injected into the fractionating columns such as ammonia, and into the vapor lines, tends to retard the corrosive action of the moist hydrogen sulphide gas and to materially lengthen the life of condensing equipment. Several operators processing crudes from these fields have found that chemical treating is made much easier and corrosion materially checked through the use of water spray systems installed in the dephlegmators or special washing towers, where the rising gasoline vapors are scrubbed free of the corrosive gas prior to condensation. Others water-wash the gasoline after condensation, and some employ weak alkaline solutions instead of pure water.

Naturally, there is some corrosion in the manufacturing processes and systems just as there is in the refining of practicailly all crude oils, but the general opinion among refiners operating on the West Texas oils is that with the proper care and attention and the use of the usual chemicals for neutralization, the corrosion may be checked to a large extent and at very little additional cost.

### Make Good Gasoline

Among the refineries visited not one reported any unusual difficulty in the preparation of gasoline meeting all specifications as to color stability, odor, doctor test, and corrosion, although practices in chemical treating differed with the various operators. As previously stated this important step in refining is dependent to a large extent upon the type of distilling and fractionating equipment. A number of plants are meeting specifications through the use of a simple sodium plumbite or doctor treatment. One or two operators are employing the lead sulphide method of treatment and a few are acid treating the motor fuel. In no instance was a refinery resorting to redistillation. The tube still method of distillation is by far the most popular, used in conjunction with the latest types of efficient bubble towers. In addition to meeting the accepted standard specifications the majority of West Texas re-

fineries processing crude from Yates and Hendricks fields are producing straight run gasolines of relatively high benzol equivalent or anti-knock properties.

Refiners have found the oils much less difficult to refine than was expected. Likewise the manufacturers of natural gasoline are entering the districts where gas is available and they too find that the difficulties heralded with regard to their processing systems are not insurmountable. While the natural gas production from the pools is high in hydrogen sulphide content the gasoline content is also usually high.

Operators in the Big Lake Pool report that natural gas from that field contains from 8 to 13 per cent hydrogen sulphide by volume, with a field average of approximately 10 per cent and some individual wells running as high as 20 per cent H2S.

Gas from the McCamey field is reported with a six per cent hydrogen sulphide content and the Church-Fields-McElroy field produces gas containing $H^2S$ in such proportions as eight to 12 per cent.

Such conditions have tended to retard the development of the natural gasoline industry in the West Texas area and there are but five plants operating and one building. Those plants which are extracting gasoline from the contaminated gas have had sufficient experience in desulphurizing the gasoline and the fuel gas for their engines that they feel certain that the most serious problems of corrosion of equipment have been solved.

The Big Lake Oil Company, for exemple, operating its plant at about 5,000,000 cubic feet of gas daily, is extracting approximately five gallons of gasoline per thousand cubic feet. In the same field the Signal Gasoline Company is operating its absorption gasoline plant with very little difficulty. The practice at the Big Lake plant consists of compressing the incoming gas to plant operating pressure of 20 pounds, passing it through a Campbell absorber to extract the gasoline. The uncondensed gases from the distillation system are recompressed and the gasoline extracted. The combined production is then stabilized and treated in continuous treaters with caustic wash and sodium hypochlorite making a finished product of grade BB, doctor sweet, non corrosive, and stable in color. It is necessary, at the West Texas gasoline plants to treat the gas used for fuel for the engines with soda ash for the extraction of hydrogen sulphide. The Koppers method is extensively employed for this purpose and for treating gas for camp and field consumption. There is little doubt but that the gasoline manufacturing phase of the industry will expand with the solution of such problems, just as the refining industry has expanded in the use of West Texas crudes since experience has shown that the evil reputation incurred by these oils was not justly deserved.

# West Texas Becoming Important Refining Center

SAN ANGELO, Texas.—Comparatively cheap priced crude made available within the past year in the West Texas district has led to the construction of an even dozen plants, with another one proposed, making total plants built, building and proposed amount to 18. Only five plants were in the district one year ago. Most of the plants are of the makeshift type, and will go on the inactive list after low crude prices are unavailable. Construction work is just being started on four of the plants.

West Texas refineries are consuming in excess of 40,000 barrels of crude daily, with the majority operating on Hendrick field crude, which was contracted for over a long period. Pasotex Petroleum Company's El Paso refinery is the last plant completed, having had a formal "christening" last week. Burford Oil Company and J. S. Cosden & Company, are installing Jenkins cracking units in their plants, which will not be ready to operate until late this year. Humble Oil & Refining Company's plant at McCamey is the largest in the district, having a capacity of 20,000 barrels daily, but it is only skimming a small percentage of gasoline. The tops are sent to Baytown for cracking, while the fuel oil is sold on a contract held with the Southern Pacific Railroad. The Wickett Refining Company is re-running "light ends" obtained from the Blue Bonnett Oil Refining Company's topping plant on an adjoining site at Wickett.

Natural gasoline plants have not found many favorable locations in the West Texas district, because of the absence of dependable gas supply in most fields. Two plants in the Big Lake field are the only important installations, although Humble Oil & Refining Company is erecting a 20,000,000 cubic foot plant in the Hendrick field. Phillips Petroleum Company proposes to erect a large plant in Crane County to take gas from the Church & Fields and Gulf-McElroy areas, but has had difficulty in getting operators to contract their gas for a 10-year period.

## WEST TEXAS REFINERY SURVEY

Refining plants operating in the West Texas district are listed below by companies, including plant location and daily capacity:

| Company— | Location | Capacity in Bbls. | Current Crude Runs | Crude Source |
|---|---|---|---|---|
| Humble Oil & Refining Company, McCamey | | 20,000 | 15,000 | Mixed grades |
| Pasotex Petroleum Company, El Paso | | 10,000 | 3,000 | Hendrick |
| J. S. Cosden & Company, Big Springs | | *10,000 | .... | Chalk-Roberts |
| Coltex Refining Company, Colorado | | 8,000 | 7,000 | Chalk-Mitchell |
| Burford Oil Company, Pecos | | *5,000 | .... | Hendrick |
| Blue Bonnett Oil Refining Company, Wickett | | 4,000 | 3,000 | Hendrick |
| Tonkawa Petroleum Corporation, Pyote | | 5,000 | 3,000 | Hendrick |
| Pecos Valley Refining Company, Pyote | | 3,500 | 3,200 | Hendrick |
| Midland Refining Company, Midland | | 2,500 | 1,500 | Hendrick |
| Rio Grande Oil Company, El Paso | | 2,500 | 2,500 | Hendrick&Wheat |
| Wickett Refining Company, Wickett | | 2,500 | 800 | Hendrick tops |
| Amarillo Producers & Refining Corporation, Pyote | | 3,000 | 1,000 | Hendrick |
| San Angelo Refining Company, San Angelo | | 2,000 | 1,000 | McCamey |
| Big Spring Refining Company, Big Spring | | *1,500 | .... | Chalk-Roberts |
| Big Lake Refining Company, Big Lake | | *1,000 | .... | |
| Odessa Refining Company, Odessa | | 600 | SD | Hendrick |
| Sweetwater Oil & Refining Company, Sweetwater | | 1,200 | 800 | Mixed grades |
| R. S. Allen et al, Big Spring | | §5,000 | .... | Chalk-Roberts |
| Total | | 87,300 | 41,800 | |

(*) Building.
(§) Proposed.

## WEST TEXAS NATURAL PLANTS

### Mitchell Field

| Company— | Field Location— | Type | Cubic Foot Capacity | Daily Production In Gals. |
|---|---|---|---|---|
| **Mitchell County** | | | | |
| Atlantic Oil Producing Company, Westbrook, Comp. | | | 230,000 | 160 |
| The California Company, Westbrook, Absorp. | | | 1,000,000 | 2,800 |
| Magnolia Petroleum Company, Iatan, Comp. | | | 100,000 | 300 |
| **Howard County** | | | | |
| Magnolia Petroleum Company, Chalk, Absorp. | | | 2,000,000 | 1,200 |
| **Reagan County** | | | | |
| Big Lake Oil Company, Big Lake, Absorp. | | | 10,000,000 | 16,500 |
| Signal Gasoline Company, Big Lake, Absorp. | | | 14,000,000 | 10,000 |
| **Winkler County** | | | | |
| Humble Oil & Refining Company, Hendrick, Absorp. | | | 20,000,000 | Building |

# Abundant Low Priced Crude Bought Under Long Contracts

## More than 20 contracts involve over 130,000 barrels daily commitments of West Texas oil; many agreements cover long periods

By H. H. KING
*Staff Representative*

SAN ANGELO, Texas.—Over-production of crude in the West Texas district during the past 12 months offered a favorable opportunity for crude purchasing agencies to obtain contracts over long periods, and many of the major and independent buyers have been successful in contracting for large daily commitments at the bottom price level over long periods. More than 20 crude contracts involving an aggregate of about 130,000 barrels daily maximum deliveries, if produced, have been made by West Texas producers and crude brokers over the balance of this year, and for a longer period in many instances. This controlled oil and that being produced by companies with local refineries and trunk lines to be supplied, leaves such a negligible amount of free oil in the district that further price reductions are very unlikely.

Production restrictions placed on the Yates, Hendrick and Roberts-Chalk fields have within the past 60 days eliminated actual over-production, and the recent appearance of new purchasing agencies in the district has resulted in a greater demand for crude that is being produced. Proration of the above three fields is scheduled to continue the rest of this year, and in the meantime the marketing and transportation facilities for production will have continuous growth, with about 90,000 barrels of daily pipe line facilities being assured from trunk lines now building by The Texas Pipe Line Company and Atlantic Pipe Line Company.

### One More Line in Prospect

Only one new trunk line project into the West Texas district is being seriously considered at this time, and it is to be built by the United Producers Pipe Line Company (Transcontinental Oil Company) and another large West Texas producer, providing Transcontinental obtains a favorable court decision, or compromise, in its court action against Mid-Kansas Oil & Gas Company for one-half of the jointly owned production in the Yates field.

Existing crude contracts block the path of other major pipe line companies interested in expanding their crude purchasing operations to West Texas, while the present trunk lines completed and building to the district without sufficient controlled oil to fill their lines over a long period are finding it difficult to line up any appreciable outside oil for purchase.

Builders of trunk lines into West Texas have been active in acquiring the major producing properties to further protect pipe line investments with reserve crude supply, and most of the larger producing units available for purchase have been bought, or the crude is tied up on contract for such a long period that would-be buyers are not interested. Buyers of producing properties in West Texas have been largely restricted to companies that intend to refine all oil produced, as low crude prices that have prevailed so far in the district leaves little profit for a company to make a large cash payment and pay out by selling the oil as produced to local crude purchasing agencies.

### Humble Big Handler

Humble Oil & Refining Company pioneered the crude buying and pipe line industry in West Texas, and is handling more than twice as much crude daily as its nearest competitors. This company entered the district in the early part of 1925, when a contract was made with the Reagan County Purchasing Company to take a maximum of 20,000 barrels of Big Lake crude daily from the Big Lake Oil Company and Texon Oil & Land Company, which are the only two producers in the Big Lake field, at the average Mid-Continent gravity scale prices until April 1, 1940. Humble later extended its crude purchasing activities and pipe line system to give market aid to independent operators and also some major companies as new fields were developed in Crockett, Upton, Crane, Pecos, Winkler and Runnels Counties, and until recently has been the only general crude purchaser in the district. More recently Roxana Petroleum Corporation and Magnolia Petroleum Company have actively sought outside crude for purchase within reach of their established gathering systems, while both Atlantic and Texas are soon to join the group of active buyers to fill idle tankage before the completion of their trunk lines early in 1929. Gulf Production Company has never sought outside oil, because of having a big surplus of its own, and is now selling all of its production in the Yates and McCamey fields on open division order to Roxana Petroleum Corporation and 10,000 barrels daily in the Hendrick field to Humble Oil & Refining Company at the 60-cent posted price.

Humble Oil & Refining Company is due much credit for the aid rendered to independent operators with excess production during the pioneering days of providing marketing facilities in West Texas, and has increased its trunk lines to a maximum capacity of about 120,000 barrels daily. This company also erected a large amount of steel storage in the district prior to general enforcement of proration in the flush areas to buy oil from independents, and unless proration is soon terminated, or omitted from the next important field developed this tankage will be useless,as more than two million barrels are idle.

The Texas Company was one of the major companies that had tentative plans of invading the West Texas district with a trunk line during the early stages of development, but postponed the project until several months ago. In order to be assured an adequate crude reserve for a trunk line, The Texas Company bought the producing properties of the Landreth Production Corporation for a consideration of $6,500,000. In connection with this deal, The Texas Company obtained nearly 3,000,000 barrels of stored oil in Crane, Winkler and Ward Counties, and producing properties in Crane and Winkler Counties, with the latter owned on a 50-50 basis with Roxana Petroleum Corporation. Landreth Production Corporation had contracted most of the allowable production from these properties to major and independent crude buyers over the balanceof this year, but the contracts will be filled by The Texas Company about the time the latter's 12-inch trunk line is completed from West Texas to the Gulf Coast. This one deal gave The Texas Company the necessary foothold to enter West Texas with a trunk line, while prospects are considered bright for The Texas Company to share in several promising new oil areas in West Texas and Southeastern New Mexico on a large scale.

### Landreth-Magnolia Contract

Landreth Production Corporation (now The Texas Company), contracted about January 1, 1928, to deliver a maximum of 7500 barrels daily, or total of 2,700,000 barrels of Church and Fields District crude over the balance of 1928 to Magnolia Petroleum Company at flat price of 50 cents per barrel at the well. The Texas Company is fulfilling the terms of this contract.

Landreth Production Corporation (now The Texas Company), contracted late in December, 1927, to sell 1,000,000 barrels of Hendrick field crude to the New Orleans Refining Company, Norco, Louisiana, at Humble Oil & Refining Company's posted price on Hendrick crude, but loaded on buyer's cars at Monahans rack, with a minimum price of 35½ cents

and maximum price of 70 cents per barrel established. Seller has option to deliver from storage, providing oil is of minimum gravity of 28 degrees. Deliveries to be made at maximum rate of 4500 barrels daily. A supplemental contract was later made for an additional 500,000 barrels, and deliveries during June averaged 5500 barrels daily. The Texas Company is carrying out the terms of this contract.

Landreth Production Corporation (now The Texas Company), contracted about February 18, 1828, to sell 500,000 barrels of Hendrick field crude, deliveries at the rate of 1500 barrels daily, to the Crystal Oil Refining Corporation, Cedar Grove, Louisiana, at Humble Oil & Refining Company's posted price for Hendrick crude, but loaded in buyer's cars at Monahans rack.

### Marland-Humble

Marland Production Company contracted in December, 1926, to deliver a maximum of 10,000 barrels daily of McCamey district crude, if produced, to Humble Oil & Refining Company, over period of three years at posted price, plus Marland Pipe Line Company's field gathering tariff. This contract is part of a 9,000,000 barrel sale to Humble Oil & Refining Company over a three year period, with 15,000 barrels daily scheduled from Texas Panhandle, if produced, or available from stocks on hand.

Midland Refining Company contracted, effective June 1, 1928, to purchase from Atlantic Oil Producing Company a maximum of 730,000 barrels of Hendrick field crude within the following 12 months, paying average posted price of Humble Oil & Refining Company, Roxana Petroleum Corporation and Southern Crude Oil Purchasing Company, or that paid by latter group for royalty oil in the field, plus 15 cents per barrel pipe line charge to Atlantic Pipe Line Company for deliveries to Midland plant. Deliveries not to exceed 2000 barrels daily, with a minimum of 1000 barrels daily.

### Atlantic-Simms-Humble

Atlantic Oil Producing Company and Simms Oil Company, joint owners of the largest producing properties in the Church and Fields area, Crane County, contracted to sell to Humble Oil & Refining Company one-third of their joint production daily for a period of three years, beginning January 1, 1928, at the market price. This long time contract succeeded a 10,000 barrel daily delivery contract male by Atlantic and Simms with Humble for the last one-half of the year 1927. Deliveries during june on this contract with Humble averaged 2110 barrels daily, while the maximum daily deliveries are fixed at 14,000 barrels.

Cranfill & Reynolds contracted to deliver 1,000,000 barrels of Hendrick field crude at a maximum rate of 5000 barrels daily to the American Petroleum Company at 50 or 55 cents per barrel at the wells, and deliveries on this contract are scheduled to be completed late in July. This contract succeeded a 500,000 barrel sale started in October, 1927, to American and negotiations are reported to be pending for a third renewal contract, but at the posted price.

Cranfill & Reynolds contracted about January 16, 1928, to deliver to Magnolia Petroleum Company 3,000,000 barrels, if produced, from its properties in the Hendrick field, at a maximum rate of 16,500 barrels daily. Magnolia provides storage, and Cranfill & Reynolds receive one-half of the total oil delivered, while Magnolia receives the other half for providing the storage and paying the one-eighth royalty. Cranfill & Reynolds plans to hold its share of the stored oil pending higher crude prices. Deliveries on this contract are slightly more than one-third completed.

Murchison Oil Company & Cranfill Brothers Oil Company contracted in August, 1927, to deliver 500,000 barrels of Hendrick field crude, if produced, at a maximum rate of 2500 barrels daily, to the American Petroleum Company at a price that figures less than the quotation posted in the field, but American Petroleum Company advanced funds to be used in developing the above concern's properties. More than 300,000 barrels have been delivered on this one-half million barrel sale, with proration holding down deliveries to 2180 barrels daily.

### American Petroleum Company Contracts

American Petroleum Company, which is the crude marketing and transportation subsidiary of the Republic Production Company, with control of the latter's 6883 barrels of daily allowable production in the Hendrick field, contracted in November, 1927, to sell a maximum of 1,000,000 barrels of Hendrick field cure, 2500 barrels daily, to the Rio Grande Oil Company, El Paso, at a flat price of 75 cents per barrel. Deliveries are being made in tank cars from American's rack at Pyote.

American Petroleum Company's largest crude sale was made about January 10, 1928, calling for the delivery of 7500 barrels daily of Hendrick field crude in tank cars to the Shreveport plant of the Louisiana Oil Refining Corporation, over the rest of 1928. This contract involves total deliveries of 2,745,000 barrels, if maximum deliveries are made, and the price is the average posted in the field, but loaded on buyer's cars, with a maximum of 75 cents and minimum of 40 cents per barrel specified.

Texon Oil & Land Company contracted to deliver 2500 barrels daily from its Hendrick field production to the Pecos Valley Refining Company's plant at Pyote at a flat price of 65 cents per barrel at the plant for a period of 12 months. Deliveries on this contract started last February, and during May and June deliveries averaged better than 3000 barrels daily.

Texon contracted to sell a maximum of 5000 and a minimum of 3000 barrels of Hendrick crude daily at a flat price of 65 cents per barrel during first year to the Tonkawa Petroleum Corporation, which is operating a plant at Pyote. Deliveries on this contract started about June 1, 1928. It is reported that the life of this contract may extend over a period of two years, if the oil is available.

Texon made contract early last March with J. D. Wrather, head of the Amarillo Producers and Refiners Corporation, to sell a minimum of 1000 barrels and a maximum of 1500 barrels daily for a period of two years, delivering the crude to the latter's Pyote plant beginning July 1, 1828, at 65 cents per barrel f.o.b plant during the first year, and 70 cents per barrel for the second year.

### 2500 Barrels Daily

Southern Crude Oil Purchasing Company made contract last November to sell a maximum of 2500 barrels daily from its runs in the Hendrick field to the Blue Bonnett Oil Refining Company's Wickett plant for a period of one year at a flat price of about 72½ cents per barrel f.o.b. plant. Deliveries were started in January, 1928, and have been increased to between 3000 and 3500 barrels daily by mutual consent. Blue Bonnett Oil Refining Company made contract late last June to sell 1000 barrels of Hendrick field crude daily for the last one-half of this year to the Star Refining & Producing Company, Fort Worth, at a flat price of 67½ cents per barrel f.o.b. buyer's cars.

Southern Crude Oil Purchasing Company made a contract late in 1927 to sell the Chalmette Petroleum Corporation, Chalmette, Louisiana, Hendrick field crude over a long period at the field posted price, but loaded aboard buyer's cars at Wickett rack, with a maximum of 75 cents and a minimum of 40 cents per barrel. Deliveries on this contract are averaging about 4500 barrels daily. Southern also has a contract made in October, 1927, to deliver a minimum of 1500 and a maximum of 2000 barrels daily of Hendrick crude to the Liberty Oil Company, New Orleans, at a reported price of 15 cents above the field posted quotation, but loaded on buyer's cars at Wickett rack. This was one of the early contracts made. Southern is delivering McCamey district crude to the San Angelo Refining Company, San Angelo, Texas, in tank cars at the posted price, plus 12½ cents per barrel transportation and tank car loading charge.

Independent Oil & Gas Company is delivering a maximum of 7500 barrels of Hendrick field crude daily to the New Orleans Refining Company, Norco, Louisiana, at 73 or 75 cents per barrel loaded aboard buyer's cars at Pyote rack. Deliveries were started on this contract, which calls for a total of 2,500,000 barrels, about January 15, 1928, and the first half-million barrels were shipped during the following two months.

Roxana Petroleum Corporation is delivering between 3000 and 4500 barrels of Hendrick crude in tank cars to Texas City for tanker movement to the Everett, Massachusetts, plant of the Beacon Oil Company.

Pure Oil Company has contracted to deliver a maximum of 10,000 barrels of Hendrick field crude daily to Atlantic Oil Producing Company at the wells over a period of one-year or more in connection with a crude swapping and purchasing agreement. Magnolia Petroleum Company

(Continued on page 102)

# Inert Gas Used to Reduce Fire Hazard on Tanks

## Roxana Petroleum Corporation blankets crude storage with carbon dioxide which is generated in special oil burning plant; same system used on tankers

By GEORGE REID
*Staff Representative*

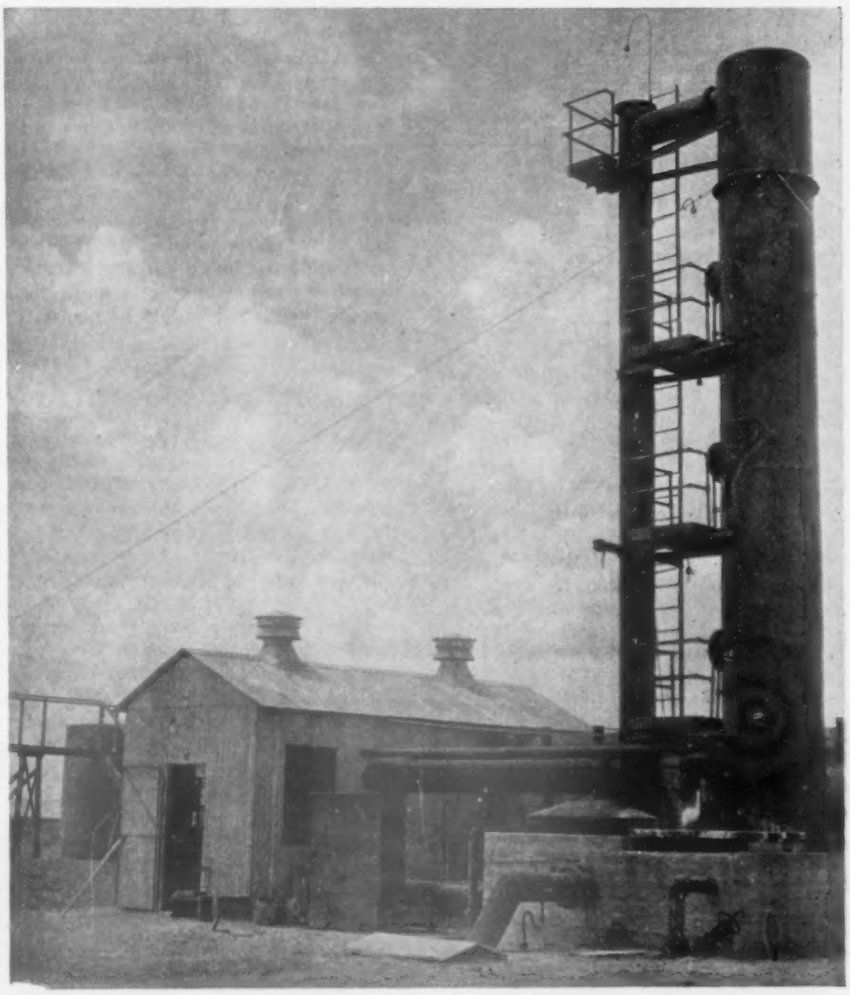
ROXANA Petroleum Corporation is employing the gaseous products of combustion of fuel oil for the protection of its two million barrel concrete tanks, constructed during the past year at Monahans and McCamey, Texas.

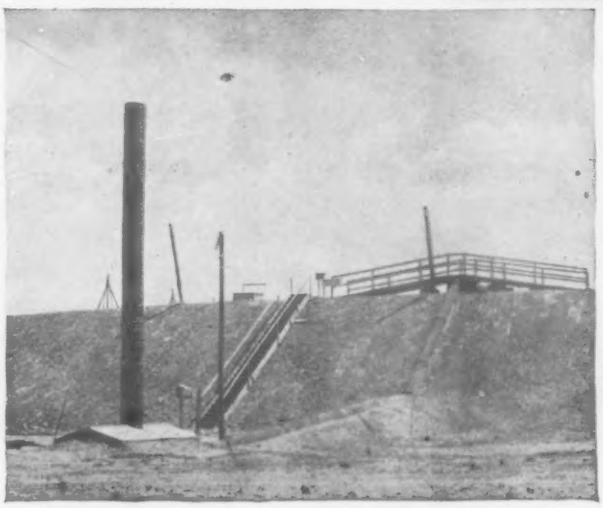
Briefly the process consists of blanketing the oil storage in the tanks with carbon dioxide in such proportions as to render the mixture of petroleum vapors and the inert gas non-combustible,—through the exclusion of oxygen. The "inert gas" plants, as they are termed in the field, are both in operation. At Monahans the plant has been in operation for some time, while at McCamey the carbon dioxide generating plant has been tested thoroughly and is to be started operating permanently as soon as Roxana begins the filling of the big tank with oil.

### New in Texas

While this method of fire protection has been employed in California for some time, the two plants in the West Texas area are the first of be installed east of the Rockies. Roxana's million barrel "tubs" are protected by the inert gas method as a further safe-guard against fire and explosion, in addition to the Johns-Manville tower system of protection against lightning. Three of the towers extend 165 feet above the tank, and the fourth is 170 feet in height. A net-work of wiring a few feet above the tank is employed in the usual manner required by this system of lightning protection. Two flood lights on the towers, provided with remote control switches assist the men in their work of taking care of the large tank at night.

Construction of the "tub" with its three-inch side walls and four-inch bottom required about 60,000 sacks of cement. Around the circumference of the tank at the top a concrete duct is provided which is kept partially full of water, the level of which is under automatic control. The water level extends two or three inches above the descending apron from the tank top and thus provides a water seal for preventing the escape of vapors and carbon dioxide used to blanket the oil for the prevention of combustion. Between three and four thousand barrels of water is required in the bottom of the tank to act as a water seal between the oil and concrete. It is estimated that approximately 300 barrels of replacement water will be required daily to hold the water at the tank bottom at the required





*Above — McCamey plant, showing design of cooling tower and water basins required in treating, cleaning, and cooling the gases of combustion before they are conducted to the storage tank.*

*Details of the vent stack of redwood, filled with sufficient $CO_2$ to take care of the ordinary breathing of the tank.*

level and to completely cover the tank bottom at all times.

### Elimination of Oxygen and Fire Hazard

In brief the "inert gas" plan consists of the practical elimination of oxygen in the space between the oil level and the tank top. In the ordinary operation of such tanks air flows into the tank when oil is being pumped out. When filling, air and petroleum vapors are forced out of the tank by the rising oil. The mixture of oil vapors and air, if in the right proportions, constitute a fire hazard both through the possibility of forming an explosive mixture which may ignite through the heat of molecular friction, or the mixture may be exploded by sparks from workmen's tools, etc. Since combustion of any kind can not take place without the presence of oxygen the explosion hazard can be entirely eliminated by filling the tanks with such a gas as carbon dioxide and either expelling the oxygen entirely or reducing it through dilution to such an extent that the gaseous mixture above the oil in the tank is non-combustible or non-explosive. In this system oil is burned for the production of carbon dioxide to protect more oil against fire.

The inert gas, carbon dioxide, is conducted from the gas generating plant to the top of the tank, at about the center, through a 14-inch pipe line made of California Redwood. Redwood is employed for the reason that it is almost impervious to the corrosive action of the gas. This gas conduit is provided with a large redwood stack which is designed to hold sufficient carbon dioxide to handle the ordinary breathing of the tank and to so dilute any oil vapors reaching it as to render them harmless in so far as their ability to burn is concerned. Instruments are provided to indicate whether or not the tank is breathing out or in, and also to record the approximate percentage of carbon dioxide in the "tub."

When the tank is being filled with $CO_2$ the hatches are opened to permit the air present in the tank to escape. Since the incoming gas is heavier than air the process becomes one of displacement. When the required amount of non-combustible gas has been conducted to the tank, then the hatches are closed and such breathing of the tank as may take place is handled through the redwood stack or vent, as mentioned above.

### Generation of $CO_2$

The plants installed for the generation of the carbon dioxide gas are virtually identical with the earlier installations and are similar in operation to those systems employed for the insertion of the inert gas in the cargo compartments of some oil tankers. The "H. M. Story", tanker owned by Standard Oil Company of California, is equipped with this system, for example. Unlike the oil tanker-ship system, however, the oil field "tub" must have special equipment, such as furnaces and large cooling towers, for the preparation of the gas especially for the tub. The tanker-ship has its oil burning furnace for steam generation and little more than a flue gas cooling device is necessary.

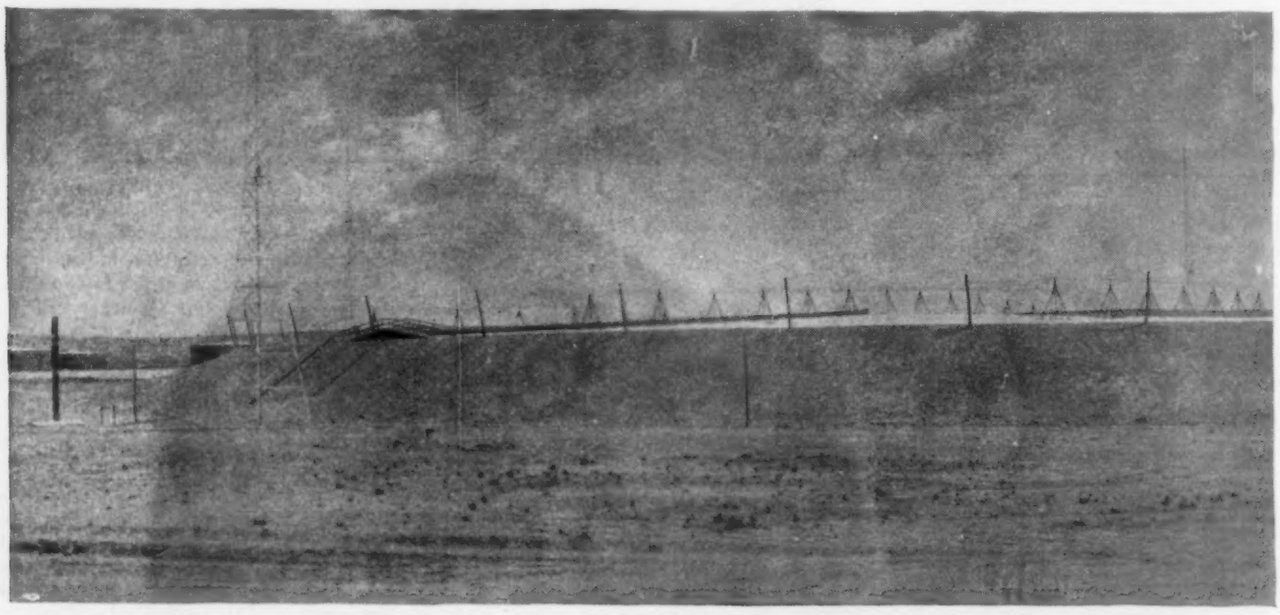
The plants at Monahans and McCamey consist of furnaces equipped with Ray oil burning systems, and in these furnaces fuel oil is consumed at the rate of from 11 to 15 barrels daily, when the plants are in operation. Furnace heat varies from 900 to 12,000 degrees. The rate of consumption of oil and the temperature of the furnace is governed to a large extent by the type of fuel oil being burned. The company has tried experimentally, the sweet fuel oil from North Texas and the so-called sour oils from the nearby refineries, and since the gases of combustion from both type of oil must be neutralized with caustic of soda ash, no definite decision as to the type of fuel required has been made.

Leaving the furnace the gases are conducted to the bottom of a large tower. As the hot gases rise they meet with three separate sprayings of cold, alkaline, water. The three spray-heads are adjustable and through the deluge of cool water a rapid reduction in temperature of the gas is secured. This cooling tower and the large conduit conducting the gases away from it to the circulating fans, are open at the bottom, but sealed with water in the concrete basin. This prevents the escape of any of the gas and provides an easy means for handling the cooling water when it reaches the bottom of the tower. Float valves control the system in such a manner that should the water level in the basin become lowered too much for any reason the entire system is automatically shut down.

When the gas has been cooled in the first tower it is picked up by two Sturtevant circulating fans. Both of the fans are operated by one 15-horsepower General Electric induction motor. The stream of gases to the fans is split by a damper arrangement about half and half. A portion of the cooled gases is discharged back into the furnace in such a manner that it mixes with the gases of combustion as they leave the furnace en-route to the cooling tower and the required draft is thus provided to cause the flow of gases through the cooling tower. This system insures that no hot incandescent particles or soot can reach the oil tank.

The second fan discharges approximately half of the gases through another large conduit and into a second cooling and treating device. This latter consists of an ordinary bubble tray above which there is a constant level of alkaline water. As the gases pass through the bubble caps and upward through the caustic water, which is held at a constant level, they are further cooled and neutralized. Sodium hydroxide, or caustic soda, has been used for neturalization, but because of the difference in cost the company plans to use soda ash in solution for the

(Continued on page 130)



*View showing the stack or vent and the redwood conduit across the roof of the million barrel reservoir, through which the inert gas is conducted into the tank.*

# PIPE ENGINEERING *for* MODERN OIL *and* GAS TRANSPORTATION

**Essentially, SMITHWelding is an engineering process that interests the Oil and Gas Industry because it produces, on a mass production basis, pipe that satisfies all the new and complex demands of modern underground oil and gas transportation.**

## Engineering Its Manufacture

**The manufacture of Smithsteel Gas Line Pipe is under the direct supervision and control of the Smith engineering organization that developed and perfected the process of SMITH-Welding and its application to the manufacture of Smith Cracking Stills, Couplings and Pipe.**

**A. O. SMITH CORPORATION**
***General Offices—Milwaukee, Wisconsin***
***Oil & Gas Field Products Division***
***District Offices at New York, Pittsburgh, Tulsa, Houston, Los Angeles***

# SMITHSTEEL
## GAS LINE PIPE

# West Texas Crude Draws Many Miles of Pipe Line

## Nine trunk lines, built and building, will provide facilities for handling 327,000 barrels daily to refineries or tide water

By H. H. KING
*Staff Representative*

FORT WORTH, Texas.—Expansion of pipe line facilities for the flush production offered by the West Texas district has involved a greater volume of new construction than any other section of the country within the past 12 months. More than 5000 miles of lines ranging from 12 to four-inch in size have been completed or started in this district since the early part of 1925, and the total pipe line investment reaches upwards of $100,000,000.

Nine separate trunk line systems built and building from West Texas to refining and export treminals will afford a maximum capacity of 327,000 barrels daily, while another 10-inch trunk line is likely to be built in the near future by the United Producers Pipe Line Company, subsidiary of the Transcontinental Oil Company, in cooperation with a large independent producer of West Texas oil.

The greatest growth in pipe line facilities for the West Texas district took place within the past 12 months, and with the aid of production restrictions in the Yates, Hendrick and Chalk-Roberts fields, the district is already assured a market outlet that exceeds allowable production. Local lines terminating at nearby tank car racks, and local refineries have also been major factors in equalizing the demand with supply.

One year ago the district was served by only the trunk line systems of Humble Pipe Line Company and the Gulf Pipe Line Company, with a combined capacity of 65,000 barrels daily. Within this brief period, Humble Pipe Line Company has built a separate line to the Gulf Coast at Ingleside and Magnolia Pipe Line Company, Illinois Pipe Line Company, Shell Pipe Line Company and Pasotex Pipe Line Company have each completed trunk lines, while Atlantic Pipe Line Company and Texas Pipe Line Company are at work on two lines to the Gulf Coast.

Low priced crude with a reasonably good gasoline content has been the principal attraction for these new lines, besides providing a market for the oil controlled by the builders, while the rapid growth in popularity of anti-knock gasolines over the country has paved the way for a ready market for the Hendrick and Yates crudes. Crudes from the latter two fields are the most popular with the major pipe line companies because of their anti-knock gasoline ingredients, and the crude supply is greater by reason of the magnitude of these two producing areas, which registered a combined potential flow of 3,817,395 barrels daily on July 1, 1928, when official proration figures were taken in giving the producing wells a brief open flow test. However, this potential production figure is out of proportion to what would be produced daily if the entire field was placed on an unrestricted flowing basis.

### Line Work Done

Unless a number of new flush oil producing areas are uncovered shortly in the district, the prospects are not bright for more major pipe line companies to build to West Texas, as the group now on the ground are conducting active campaigns towards lining up outside crude connections for purchase, with only a small volume of free oil available. The construction of the United Producers Pipe Line Company et al's proposed 10-inch line from Yates field to Texas City hinges on the outcome of a lawsuit now pending between Transcontinental Oil Company and Mid-Kansas Oil & Gas Company, joint owners of the largest producing properties in the Yates field. The latter has operating control, and alleges that the development contract made at the beginning of the partnership gives prior right to market all oil produced. Officials of the Transcontinental Oil Company interpret the wording of the contract in such a manner that both members of the partnership have equal rights as to the marketing of the oil produced.

Humble Pipe Line Company was the major crude purchaser to enter the West Texas district, having built its first line from Central West Texas to a point near the Big Lake field in 1925, and has since maintained a steady expansion program. Humble is handling more than twice as much West Texas oil daily as any other company, with facilities to deliver 120,000 barrels to the coast, including 20,000 barrels daily received from Illinois Pipe Line Company at Lytle.

Kemper station and tank farm, located in Section 11, block 11, Reagan County, is the principal junction on Humble Pipe Line Company's system in West Texas. Humble gave West Texas its first trunk line system after getting a contract December 15, 1924, to take a maximum of 20,000 barrels daily from the Big Lake field, if produced, until April 1, 1940, and proceeded to build an eight-inch line from Comyn station, Comanche County, located on the Central West Texas trunk line, to Kemper. This line required about 190-miles of eight-inch pipe, and was put in operation April 18, 1925. It was paralleled with another eight-inch in the early part of 1927, thereby giving Humble a daily capacity of 40,000 barrels from Kemper to Comyn, thence to the Gulf Coast. The Big Lake crude is delivered to Humble Pipe Line Company at Kemper through a combination eight and ten-inch line by the Reagan County Purchasing Company.

Humble Pipe line Company's next activity in West Texas consisted of a four-inch line, approximately 15 miles in length, from Kemper station to the World-Powell field, Crockett County. It was placed in operation in August, 1926, and is the only line serving this pool.

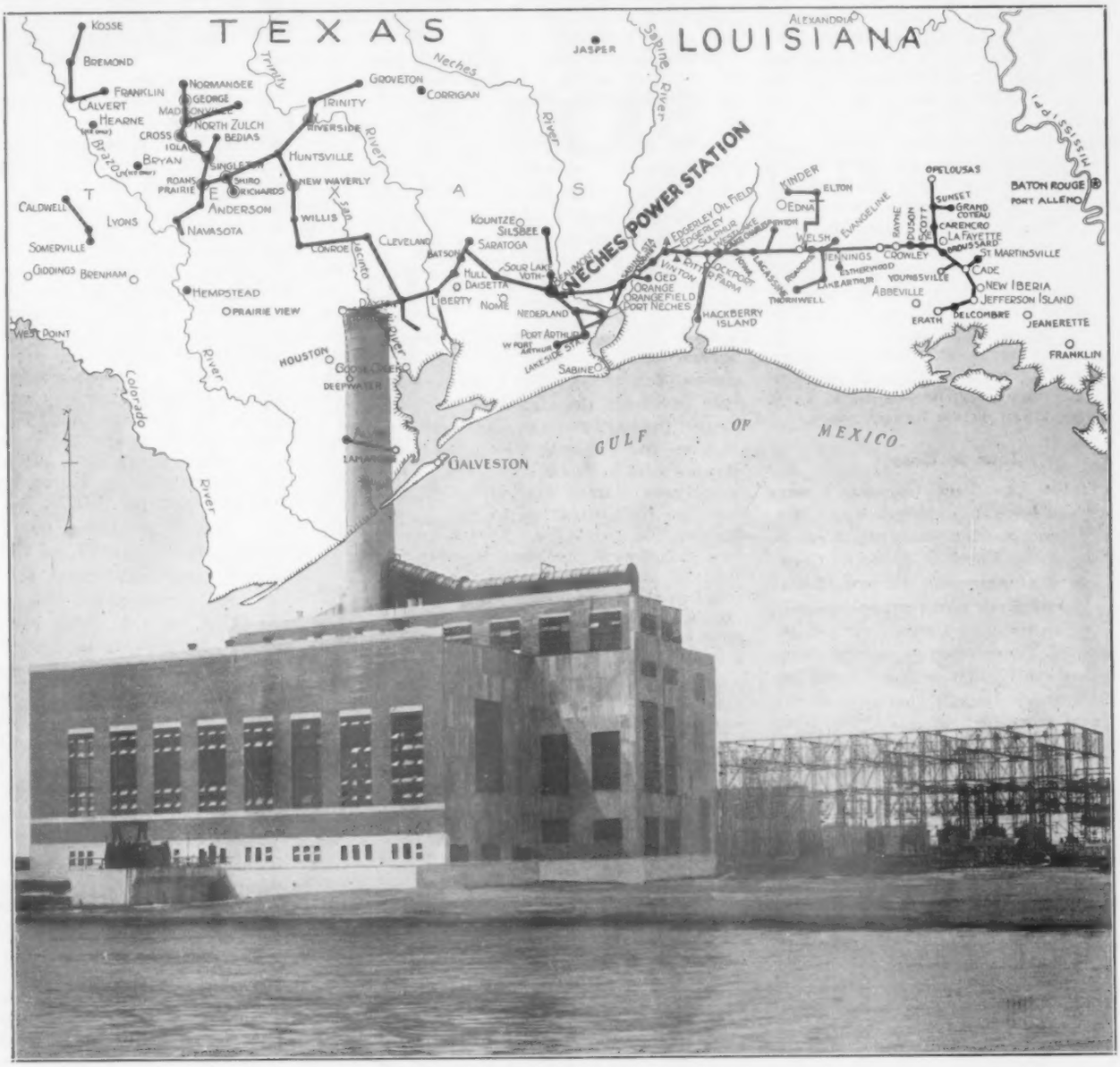
Development of a field at McCamey by independents resulted in Humble agree-

**WEST TEXAS TRUNK LINES**

| | Size | Capacity |
|---|---|---|
| Humble Pipe Line Co., from Kemper to Ingleside | 10-12 | 60,000 |
| Humble Pipe Line Co., from Kemper to Baytown | 8-(2) | 40,000 |
| Atlantic Pipe Line Co., from Midland to Atreco | 10 | [3]35,000 |
| Shell Pipe Line Co., from McCamey to Healdton | 10 | 35,000 |
| Gulf Pipe Line Co., from Midland to Olean | 10 | 25,000 |
| Illinois Pipe Line Co., from Yates to Lytle | 8-10 | [2]25,000 |
| Magnolia Pipe Line Co., from Midland to Beaumont | 8 | 32,000 |
| Texas Pipe Line Co., from McCamey to Houston | 12 | [3]60,000 |
| Pasotex Pipe Line Co., from Hendrick to El Paso | 8 | 15,000 |
| Totals | | 327,000 |
| United Prod. P. L. Co., from Yates to Texas City | 10 | [3]35,000 |
| Totals | | 362,000 |

[1]Building.
[2]Delivers to Humble Pipe Line Company's Ingleside line at Lytle.
[3]Proposed.

NOTE: More than three score oil companies in Texas and Louisiana receive electric power for use in field, pipe line and refinery from the Neches Power Station—one of the greatest generating stations in the Southwest.




# *AN* INVITATION

The next time you are in the vicinity, make it a point to visit Neches Station. Be our guest on a tour of this most modern power plant located on the Neches river a few miles below Beaumont. See for yourself the big turbo-generators which produce electric power—the accepted power—for the oil industry in the Gulf Coast.

**We invite you to call upon our petroleum specialists for any assistance in the application of electric power to any phase of the petroleum industry.**

## Gulf States Utilities Co.-Western Public Service Co.

*Under Executive Management of* STONE & WEBSTER, INC.
*General Offices*: BEAUMONT, TEXAS

ing to lay a line from Kemper to tank farm and pump station site in Section 65, block 35, H. & T. C. Survey, Upton County, a distance of about 47 miles. The company first strung a combination eight and ten-inch line between these two points, having completed it early in January, 1927, and has since made it three eight-inch feeding into two ten-inch lines, with the latter on the Kemper end of the unit. A complete coverage of the McCamey field was made by Humble Pipe Line Company with its gathering lines, and the discovery of the Church and Fields and Gulf-McElroy areas, Crane County, resulted in a six-inch line being built from McCamey to the discovery well of the Church and Fields area in October, 1926. Humble strung an eight-inch line parallel with the six-inch in the early summer of 1927 after the Church and Fields and Gulf-McElroy areas were proven for flush production. This system required about 25 miles of pipe for each line, and is rated good for more than 40,000 barrels daily.

### Line to Coast

Humble Pipe Line Company's next important project consisted of an eight-inch 35-mile welded line from Kemper station to the Yates field, Pecos County, and a combination 10 and 12-inch welded line from Kemper to Ingleside, located on the Gulf Coast, near Corpus Christi. These two projects were launched early last summer, and the Yates line was put in operation during the first week in September, 1927. The Kemper-Ingelside trunk line required about 355 miles of pipe, and six main-line stations. Actual construction work was started May 15, 1927, and the first West Texas oil arrived through the line at Ingleside about September 20, 1927, thus making a fast record over bad country. Humble has since added an eight-inch loop on the Yates field line that is being completed this month to afford a maximum capacity of 40,-000 barrels daily, and the Kemper-Ingleside trunk line has been looped at intervals to increase the capacity to between 50,000 and 60,000 barrels daily as far south as Lytle, and 80,000 barrels daily from Lytle to Ingleside. These loops are to be completed this month, and the extra capacity from Lytle south is to accommodate oil delivered by the Illinois Pipe Line Company from Yates field to Lytle.

Humble Pipe Line Company started work about December 1, 1927, in laying a combination 10- and eight-inch line from its Church & Fields station to the Hendrick field, with the larger pipe in use on the south end of the extension, which involved a stretch of about 55 miles. It began running oil from Hendrick field through this line to Church & Fields-McCamey stations, to Kemper, February 24, 1928, and during the early part of this summer looped the eight- and also the 10-inch pipe out of Hendrick field, making two eights feed a pair of tens. Humble obtained a six months contract on the production of the Ladd-Hill-Sillix et al discovery well in Runnels County about September 1, 1927, and built five miles of four-inch line to a tank car rack at Benoit, completing it September 15, 1927. When Vacuum Oil Company purchased the discovery well, Humble surrendered line and rack to Vacuum. Humble started construction work about May 15, 1928, in laying a 15 miles six-inch line from Hawley station, Jones County, on its Panhandle-Comyn trunk line, to the Noodle Creek field, and has since extended this line to the Tiner-Smith area, located north of the Noodle Creek field, and also to the Royston pool, located to the northwest in Fisher County.

### Gulf Company Lines

Gulf Pipe Line Company was the second builder of trunk line to West Texas, having built a 47-mile eight-inch line from the Gulf-McElroy field, Crane County, to tank farm and car rack on the Texas & Pacific Railroad, located east of Midland. Construction work was started early in 1927, and the first oil was put in the line February 24, 1927, Gulf Pipe Line Company built a six-inch line from its field station in Section 202, Block F, to its lease in the Church & Fields area, the company decided to extend from Midland to Ranger district, where a connection could be made with its Mid-Continent system, and put a surveying party in the field March 18, 1927, with actual construction work getting underway April 28, 1927. The Midland-Ranger line required 211 miles of 10-inch pipe, and was put in operation late in June, 1927, with capacity of 25,-000 barrels daily, but could be increased to 35,000 barrels by adding more stations.

Gulf Pipe Line Company started work late in October, 1927, on a 25-mile eight-inch line from the Yates field, to a tank car rack on the Orient Railroad in Section 2, G. C. & S. F. Railway Survey, near Hurdle, and completed it November 25, 1927. In December, 1927, the company decided to extend this line from Hurdle rack to Gulf-McElroy station, a distance of about 22 miles, and finished the job February 10, 1928.

### Magnolia Pipe Lines

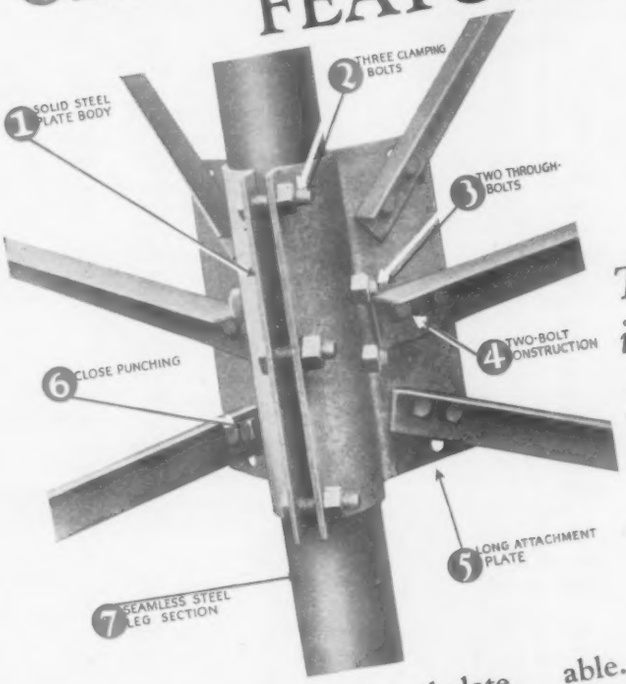
Magnolia Pipe Line Company was the third entrant into West Texas with a trunk line, having placed orders about August 22, 1927, for 45 miles of eight-inch welded pipe to build from Church & Fields area to a tank farm in Section 43, Block 38, T. & P. Survey, T-1-S, Midland County, and ran the first oil October 5, 1927. During the latter month, the company placed orders for materials to lay an eight-inch line from Midland tank farms to Del Leon statoin, Comanche County, where direct connection with existing lines to the Gulf Coast was possible. This extension required 220 miles, and was put in operation December 3, 1927. It has since been pumping a maximum of 25,-000 barrels daily, and on July 12, 1928, orders were placed for the addition of eight loops, ranging from nine to 16 miles out of each of the eight stations between Midland and Del Leon, thus increasing the capacity to 32,000 barrels daily. Magnolia has a gathering system made up of four and two-inch pipe extending from its Iatan tank farm, Mitchell County, to its Adams and Coleman leases in the Westbrook field, Mitchell County, and also a southwest extension from the tank farm to the Iatan pool and the Chalk field, Howard County. The company also built a four-inch line from the deep pay area in the Chalk field to the Iatan station on its Midland-DeLeon trunk line, having built same in November, 1927. However, this line is not being operated, but will be when restrictions are partially lifted on the deep production. Magnolia has a combination six and four-inch gathering system throughout the Hendrick field, Winkler County, and extending to its tank farm in Section 6, Block B-11, Winkler County. This gathering system was completed in November, 1927.

Illinois Pipe Line Company, the transportation subsidiary of the Ohio Oil Company and Mid-Kansas Oil & Gas Company, provided the first pipe line connection for the Yates field, with the completion of a six-inch line about 28 miles in length to McCamey in April, 1927. This line's capacity was limited to about 11,000 barrels daily, and an eight-inch parallel line was ordered built in May, 1927. Crude deliveries were made to a tank farm at McCamey, and the remainder to Humble Oil & Refining Company. Illinois Pipe Line Company purchased a tank farm site near Del Rio, Texas, July 13, 1927, and ordered 25 80's, along with 137 miles of eight-inch line to build from Yates field to the latter point. This line was put in operation October 24, 1927, and has since been looped with eight-inch for more than one-half the length. Illinois Pipe Line Company started surveying in October, 1927, for a 10-inch extension from Del Rio tank farm to Lytle, Atascosa County, where connection could be had with Humble Pipe Line Company's Kemper-Ingleside trunk line in making deliveries to tidewater. About 130 miles of 10-inch welded pipe was required to build from Del Rio to Lytle station, and the first oil was started through the line about March 1, 1928.

### Southern Pipe Line Company

Southern Pipe Line Company, which is affiliated with Standard Oil Company of Indiana, made its first appearance in West Texas on October 13, 1926, when contracts were awarded for the construction of a complete gathering system in the McCamey district, with main line receiving station located in the west quarter of Section 64, Block 35, H&TC Survey. Four-inch lines involving about 30 miles of

# A Moore CHAMPION DERRICK FEATURE




*The Moore Clamp is a strong, efficient joint for leg sections and provides a convenient attachment for girts and braces.*

(1) Solid body of rolled steel plate. (2) Three ¾" bolts clamp the joint with a vise-like grip around the leg sections. (3) Two ¾" bolts through the body of the clamp and through the leg sections prevent leg sections from being pulled out. (4) Two-bolt construction is used to attach members where experience and engineering practice have proven it advisable. Elsewhere, single-bolt. (5) Long single plates for the attachment of girts and braces (6) Structural bracing, punched to a close gage, so that machine bolts cannot turn while being tightened. (7) Leg sections of seamless steel, 40-50 carbon with a minimum yield point of 45,000 pounds per square inch. This is API Grade "C" pipe—the best.

LEE C. MOORE & CO., *Inc.* PITTSBURGH · TULSA

Established 1907
EQUIPMENT COMPANY
NEW YORK OFFICES: OILFIELD
30 CHURCH ST., NEW YORK, N. Y.
*Stocks in All Principal Fields*

DALLAS, TEXAS
HOUSTON, TEXAS
WICHITA, KANSAS

PARKERSBURG, W. VA.
CASPER, WYO.
SHREVEPORT, LA.

Moore
STEEL DERRICKS
ALL STEEL RIG EQUIPMENT

pipe was used in this system, including a double four-inch from the above station site to the Hughes booster station in the Independent-Taylor pool. The company built a 16-mile six-inch extension from the Hughes booster station to the Church & Fields area to run contracted oil obtained from Tidal Oil Company and Turman-Maxwell interests in February, 1927, for one year, but is not using the latter line at present. All of Southern Pipe Line Company's crude runs in the Crane-Upton County district are marketed in tank cars from McCamey.

Southern Pipe Line Company built the first gathering system in the Hendrick field, using a combination six- and eight-inch line from its Hardin pump station in Section 6, Block B-12, Winkler County, to a tank car rack and tank farm at Wickett, located in Section 20, Block F, GMMB&A Survey, Ward County, a distance of about 17 miles, with a four-inch gathering system in the field. This system ran the first oil in May, 1927, and has since been materially enlarged in the field, while another six-inch line has been built to Wickett. The latter parallel line was placed in operation about March 1, 1928, giving the company a daily capacity of 40,000 barrels to Wickett.

Marland Pipe Line Company was an entrant into the McCamey field, having installed a six-inch gathering system connecting all of Marland Production Company's leases in the Crane-Upton County district centering around McCamey. This system terminates at a tank farm in the southeast quarter of Section 64, Block 35, H&TC Survey, Upton County. Prior to January, 1926, the Marland company was marketing this crude in tank cars from McCamey, but a three-year crude contract with Humble Oil & Refining Company enables Marland to make deliveries to the former at McCamey. Marland Pipe Line Company built a two-inch line to the Church & Fields area shortly after completion of the discovery well, but this has since been abandoned. It built a 15-mile six-inch line from Kemper, Reagan County, to the World-Powell field, Crockett County, in the early summer of 1926, but never handled any appreciable amount of oil through it. However, this line is still available for service. Marland has a 12-mile four-inch line extending from the Texas & Pacific Railroad, Section 43, Near Coahoma, Howard County, to the Chalk shallow field, with a six-inch gravity system in the field, but operation of this line was discontinued in August, 1927, when the company contracted to sell a maximum of 1500 barrels daily to the Col-Tex Refining Company.

### Shell Lines

Shell Pipe Line Company's initial pipe line program in West Texas involved the laying of a four-inch gathering system to connect Roxana Petroleum Company's McCamey field leases with a tank car rack at McCamey in October, 1926. Shell built a six-inch line from the heart of the Hendrick field to a tank car rack at Monahans, Ward County, making first crude deliveries in December, 1927, and a parallel six-inch line from Hendrick field via Monahans to McCamey, a distance of about 75 miles, with the first oil running through the latter unit in January, 1928. The next important pipe line extension consisted of a six-inch line from the Yates field to McCamey, about 25 miles, and this line is being looped.

Construction work was started in January, 1928, by the Shell Pipe Line Company on a 481-mile 10-inch welded line from McCamey district to Cushing, Oklahoma, where connection was made with its trunk line system. This line was completed about May 10, 1928, and the first oil reached Cushing before the end of May. It is capable of pumping 40,000 barrels daily during the summer season, with 14 main line stations equipped with centrifugal pumps and electric motors. The requirements of this line has exceeded the deliveries of the six-inch feeder lines from Yates and Hendrick fields, and work was started early in July, 1928, in laying a six-inch line parallel to the Monahans-McCamey six-inch unit. Shell Pipe Line Company is to start late this month on an eight-inch extension from its McCamey-Cushing trunk line at the southeast corner of Howard County to the heart of the Chalk-Roberts field to purchase 8000 barrels of crude daily, if available.

### The Texas Company

The Texas Pipe Line Company entered the McCamey field with a gathering system late in 1926, using about 15 miles of six-inch line to serve The Texas Company's leases in Upton and Crane Counties, with a tank car rack at Crossett station. This system was turned over to the Southern Pipe Line Company from February 1 to November 9, 1927. The Texas Company also built a two-mile two-inch line from its discovery well in Fisher County to a small tank car rack on the MK&T Railroad on Section 64, W. E. Richardson Survey, Block "R", Fisher County, and made first shipments during the last week in January, 1928.

Texas Pipe Line Company acquired the 18-mile six-inch pipe line, with gathering lines, put in operation January 27, 1928, by the Landreth Production Corporation from the Hendrick field to a tank car rack at Monahans when the latter's Winkler and Crane properties were bought June 20, 1928. This large purchase resulted in The Texas Company announcing about June 27 that work would start immediately on a 550-mile 12-inch welded line from the Crane-Upton district to Houston, thence to Port Arthur with a 10-inch line. This trunk line is to have a maximum capacity of 60,000 barrels daily, and is scheduled to be in operation by March 1, 1929.

### Atlantic Line to Coast

Atlantic Pipe Line Company, subsidiary of the Atlantic Oil Producing Company, completed a 71 mile 10-inch welded line from the Hendrick field to a tank farm at Midland, where connections also could be had with Magnolia Pipe Line Company's West Texas trunk line system, and on June 22, Atlantic announced that this unit would be extended on to Atreco, located between Beaumont and Port Arthur, a distance of about 530 miles. Construction work started July 16, and the line is scheduled to be in operation early in 1929, with a capacity of 35,000 barrels daily. This line is to deliver West Texas crude to Atreco, thence in tankers to the Atlantic Refining Company.

### Line to El Paso

The Pasotex Pipe Line Company, subsidiary of the Standard Oil Company of California, began stringing pipe for a 195 mile eight-inch welded line from the producing property of the California Company, in the Hendrick field to El Paso, where the Pasotex Petroleum Company has recently erected a 10,000 barrel refinery. This line was completed in June, and is rated 15,000 barrels daily. The pipe used in this line is seamless.

The Coltex Refining Company, which is owned jointly by the California Company and the Anderson-Prichard Oil Corporation, has a 14-mile four-inch line from its refinery at Colorado to the Westbrook field, Mitchell County, with principal field station in the southeast corner of the ne¼ Sec. 21, blk. 28, T. & P. Survey, T-1-N. A complete network of gathering lines serve this field. The Northwest Company has a three-inch line extending from a small group of pumpers in Southern Scurry County to make deliveries to the above line.

American Petroleum Company built a six-inch line from the Hendrick field, Winkler County, to a tank farm and rack on the Texas & Pacific Railroad near Pyote, Ward County, and began running oil about September 18, 1927. This concern has a complete coverage of the field with gathering lines.

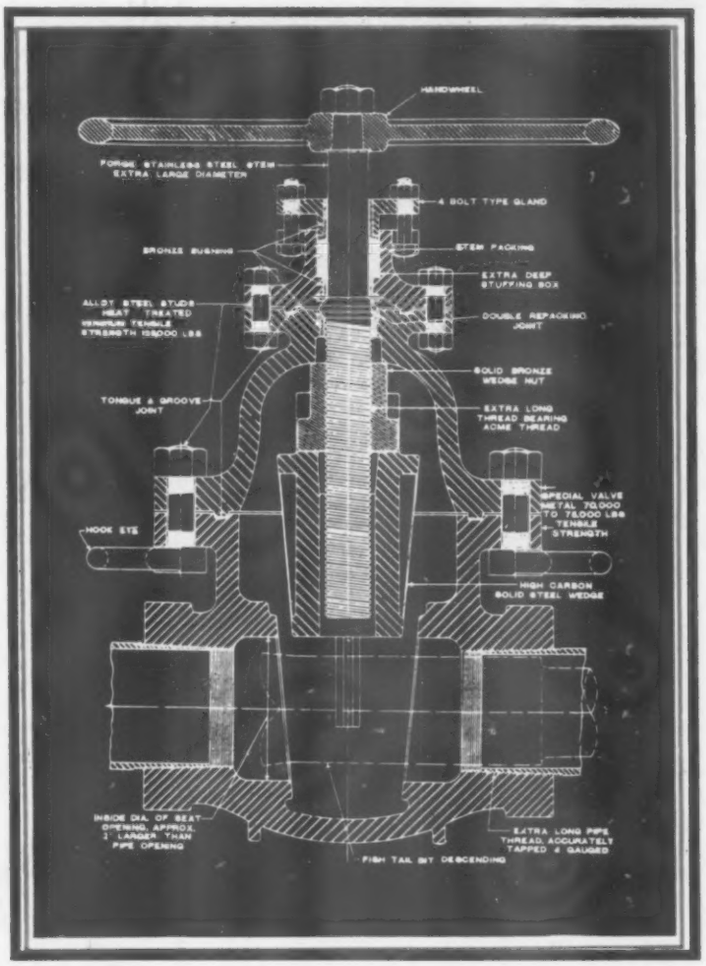
Independent Oil & Gas Company let contract late in November, 1927, for the construction of a 16-mile eight-inch line from the Hendrick field to a tank car rack and tank farm on Texas & Pacific Railroad, near Pyote, and began making crude shipments about January 12, 1928.

Texon Oil & Land Company started work early in January, 1928, on an 18½-mile six-inch line from the Hendrick field to a tank car rack, tank farm and refineries at Pyote, and completed the line about February 11, 1928.

Skelly Oil Company and the Burford Oil Company shared in the cost of constructing a 40-mile six-inch line from the former's producing properties in the Hendrick field to the latter's refinery at Pecos. Construction work was started in April, and the line was put in operation about July 1.

Lockhart & Company, owners of three small high gravity wells in the Wheat pool, Loving County, have a four mile two-inch line from the pool to a tank car rack on the Santa Fe Railroad at Arno, Reeves County, to permit tank car shipments of this oil to the El Paso plant of the Rio Grande Oil Company.

# Here it is! THE NEW WESTCOTT


HANDWHEEL
FORGE STAINLESS STEEL STEM EXTRA LARGE DIAMETER
4 BOLT TYPE GLAND
BRONZE BUSHING
STEM PACKING
EXTRA DEEP STUFFING BOX
ALLOY STEEL STUDS HEAT TREATED MINIMUM TENSILE STRENGTH 125000 LBS
DOUBLE REPACKING JOINT
SOLID BRONZE WEDGE NUT
TONGUE & GROOVE JOINT
EXTRA LONG THREAD BEARING ACME THREAD
SPECIAL VALVE METAL 70,000 TO 75,000 LBS TENSILE STRENGTH
HOOK EYE
HIGH CARBON SOLID STEEL WEDGE
INSIDE DIA. OF SEAT OPENING, APPROX. 1" LARGER THAN PIPE OPENING
EXTRA LONG PIPE THREAD, ACCURATELY TAPPED & GAUGED
FISH TAIL BIT DESCENDING

## Improved SOLID WEDGE All-Steel Drilling Gate Valve

1. Solid Manganese Bronze Wedge Bushing on which the Solid Wedge hangs and makes possible a perfect mechanical fit of the threads on the Bushing with threading on stem.
2. KEROSENE test under double Working Pressure, in addition to regular Hydrostatic and Air tests. Tested to insure extra margin of safety. For example, 1600-lb. W. P. Valve is tested to 4200 lbs.
3. Stainless Steel Stem with ample Acme thread.
4. Bronze Bushed Stem openings: prevents "galling" or "scoring."
5. A new high tensile steel forming a close grain extremely clean casting.
6. The Seats are cast integral with the body—an old Westcott feature.
7. As in all Westcott Gate Valves—the Solid Wedge and the Seats are ground to finish and Solid Wedge lapped in.
8. Ample seat clearance for tools, etc.; approximately 2-inch larger than pipe threads.
9. Naturally the best cut and gauged thread that is possible.
10. Heat treated Studs with 125,000-pound tensile strength.
11. Double repacking joint—valve can be repacked open or closed under pressure.
12. Bonnet and Stuffing Box Gaskets of soft steel, corrugated, with coating of key paste.

We are pleased to announce the new WESTCOTT Solid Wedge Gate Valve—*perfected* in design, mechanical construction and materials to such an extent that those desiring a valve of this type will find it superior in strength, endurance, and convenience.

WESTCOTT Steel Drilling Gate Valves, in desired sizes and working pressures, are now available in either Double Disc or Solid Wedge type as desired.

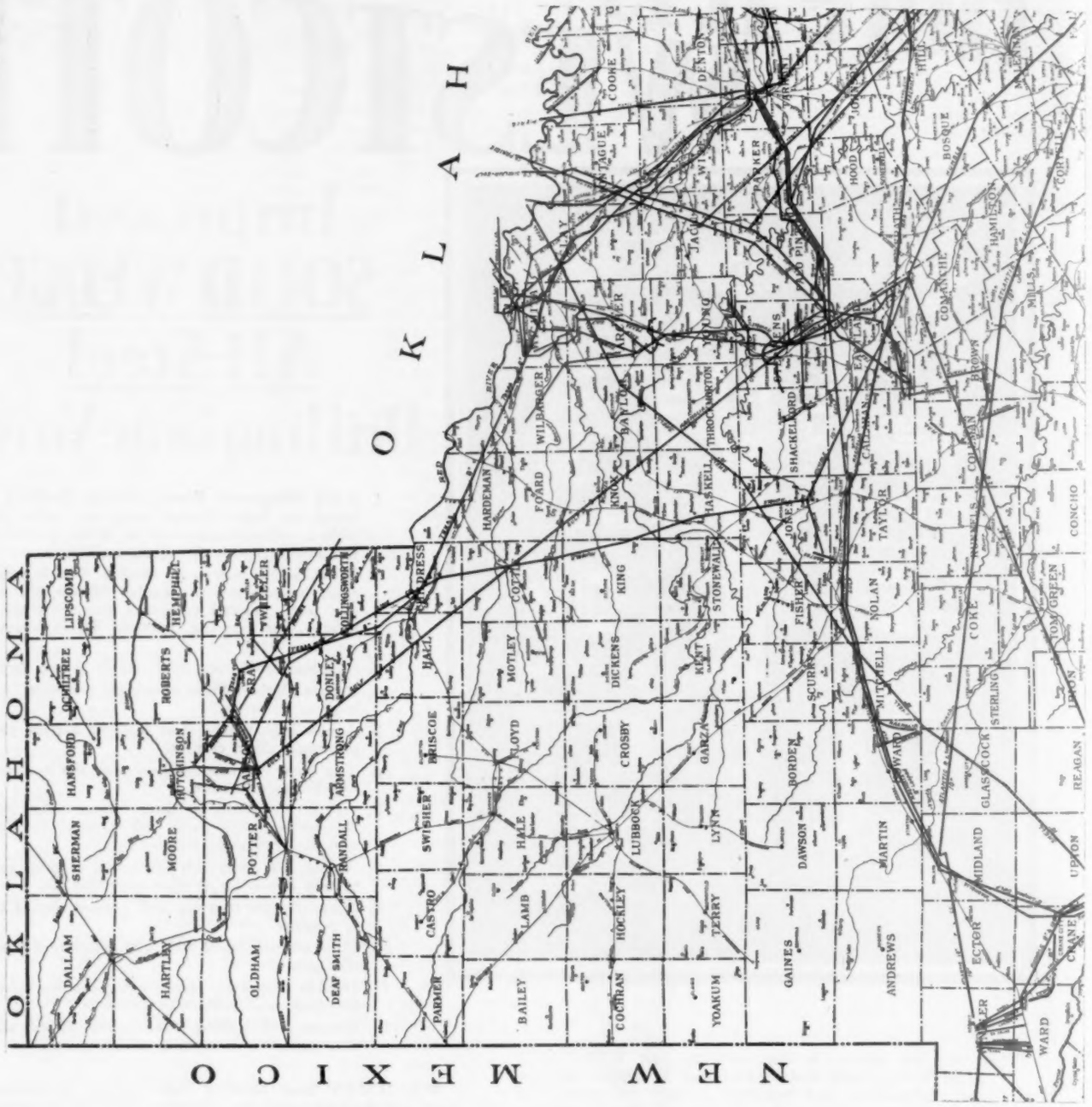
*"If CONTINENTAL Sells It, There Is No Better"*

**THE CONTINENTAL SUPPLY COMPANY**

General Offices: St. Louis

Export Offices: 74 Trinity Court, New York
London Office: 316-317 Dashwood House, Old Broad St., E. C. 2
THE CONTINENTAL SUPPLY COMPANY, Ltd.
411 Lancaster Bldg., Calgary, Alberta, Canada

# CONTINENTAL




MAP SHOWING OIL PIPE LINES AND PROPOSED LINES IN WEST TEXAS

SAN SABA
MCCULLOCH
MASON
LLANO
BURNET
WILLIAMSON
BELL
MILAM
BLANCO
GILLESPIE
KENDALL
KERR
BANDERA
BEXAR
COMAL
HAYS
TRAVIS
BASTROP
CALDWELL
GUADALUPE
GONZALES
DEWITT
GOLIAD
REFUGIO
BEE
KARNES
WILSON
ATASCOSA
MEDINA
FRIO
MCMULLEN
LIVE OAK
SAN PATRICIO
NUECES
DUVAL
JIMWELLS
KLEBERG
KENEDY
BROOKS
WILLACY
CAMERON
HIDALGO
JIM HOGG
STARR
ZAPATA
WEBB
LASALLE
DIMMIT
ZAVALLA
UVALDE
KINNEY
MAVERICK
EDWARDS
REAL
KIMBLE
MENARD
SCHLEICHER
SUTTON
CROCKETT
VALVERDE
TERRELL
PECOS
BREWSTER
RIO GRANDE
LOVING
REEVES
CULBERSON
JEFF DAVIS
PRESIDIO
HUDSPETH
EL PASO

# NEW LLANO POOL—NORTH WINKLER COUNTY

*The Llano field, as the above territory is known, lies in a trend to the north of the Hendrick field, with oil and gas production established in commercial quantities on both sides of the Texas-New Mexico line.*

# Sullivan Diamond Core Drills
## Mean Lower Exploration Costs

IN the face of a 400 per cent increase in general oil field drilling costs since 1913—Sullivan Diamond Core Drills enable complete exploration to be made at a large saving.

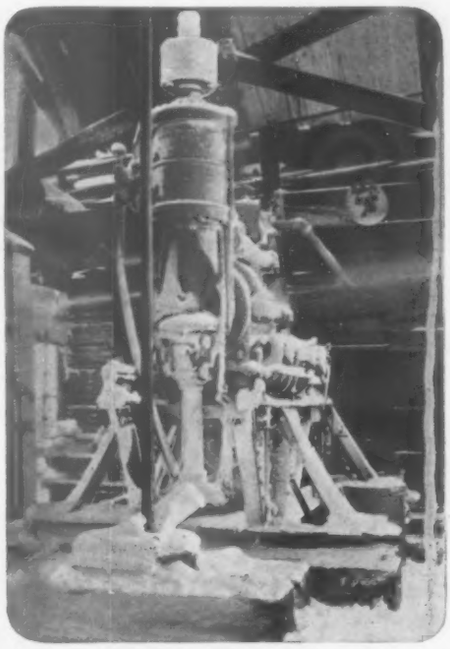
The diamond drill locates the oil exactly—drills either hard or soft material as it is encountered, with no change of equipment—drills hard rock rapidly—and oil companies are saving hundreds of thousands of dollars, annually, with these machines.

At the cost of a single wildcat well, one of two whole townships can be fully tested with a Sullivan Structure Drill. "N" and "CN" gasoline engine driven, truck-mounted drills enable fast moving, fast setting up, and fast coring, to 2000 ft. With the cores obtained geologists can readily measure the depth to the key bed, map and trace the anticline and locate the oil.

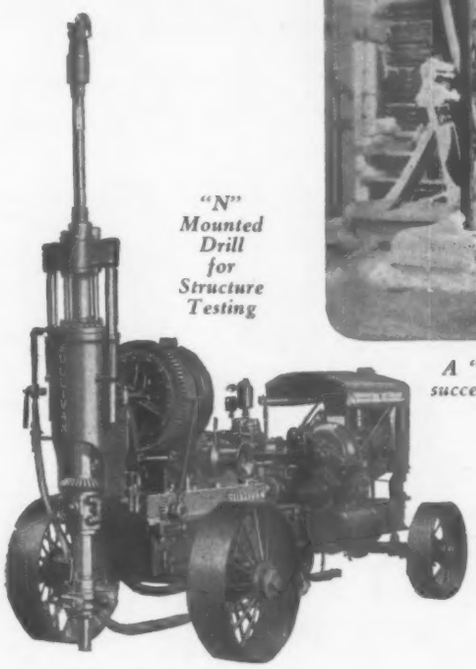
*For description of Sullivan Compressors, Air Tools, and Portable Hoists, see page 9*

*"FK" Drill for Deep Tests*

For deep tests, and production tests, the "FK" and "P-2" Drills are used. The "P-2" has taken core at 4000 feet, and the "FK," below 6000 feet.



*A "P-2" Drill bored the first successful well in Turner Valley Field, Alberta*



*"N" Mounted Drill for Structure Testing*

CORES obtained by Sullivan Diamond Drills are actual samples of the strata penetrated, and are accepted by Oil Feld Engineers everywhere as conclusive evidence of the value of the property. And diamond drills can *always* be depended on to produce perfect cores.

*An 80-page handbook "Diamond Drilling for Oil" is yours for the asking. Send for it today.*

## Sullivan Machinery Company

88 E. ADAMS STREET, CHICAGO

DALLAS · OKLAHOMA · PARIS · MEXICO
TULSA · SAN FRANCISCO · TOKYO · CALCUTTA
GARBER · LONDON

# SULLIVAN

TRADE MARK

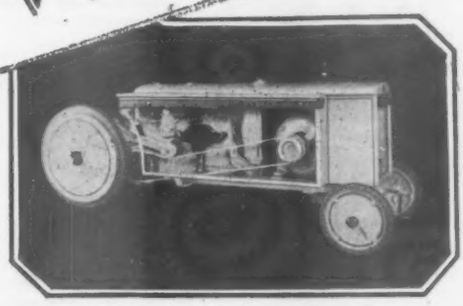
*Say you saw it in The OIL WEEKLY*

# HENDRICKS FIELD—WINKLER COUNTY

*The Hendrick field, Winkler County, is shown above, with wells making water indicated by circle.*

# Everything You Need FOR ARC WELDING

Arc welder driven by a Buda gas engine. Can be transported for field work where no electric power is available



Portable, self-propelled welding set—for use where electric power is not available. Consists of a standard arc welder mounted on a Fordson tractor

Automatic arc welder for quantity production of tanks and metal containers. Larger machines are available for the manufacture of pipe

Single-operator welder for all general welding work. Available in three sizes, 200 amperes, 300 amperes, 400 amperes

Electrodes of highest quality for all types of work—all types of arc welders

Accessories for the welder: Helmets, face shields, electrode holders, welding cable, etc.

THE MORE YOU ARC WELD THE MORE YOU SAVE

THE Age of Arc Welding is here. It is radically changing fabrication and repair work throughout the oil industry. Pipe lines are being arc welded at a saving of 25% of the cost of coupled construction. Storage tanks are being arc welded to prevent leaks which cause an annual loss of 5% of the stored products. Of the steel and iron formerly junked, 75% is now salvaged by arc welding. Old oil-well tools are built up for new service at low cost. Leaky riveted tanks are made sound.

General Electric offers you everything you need to keep abreast of this new age. It manufactures the only complete line of arc welding equipment. Its welders are second to none on the market. Its demonstration laboratories are constantly educating oil men to a better use of arc welding. Its welding school is giving free training to hundreds of operators.

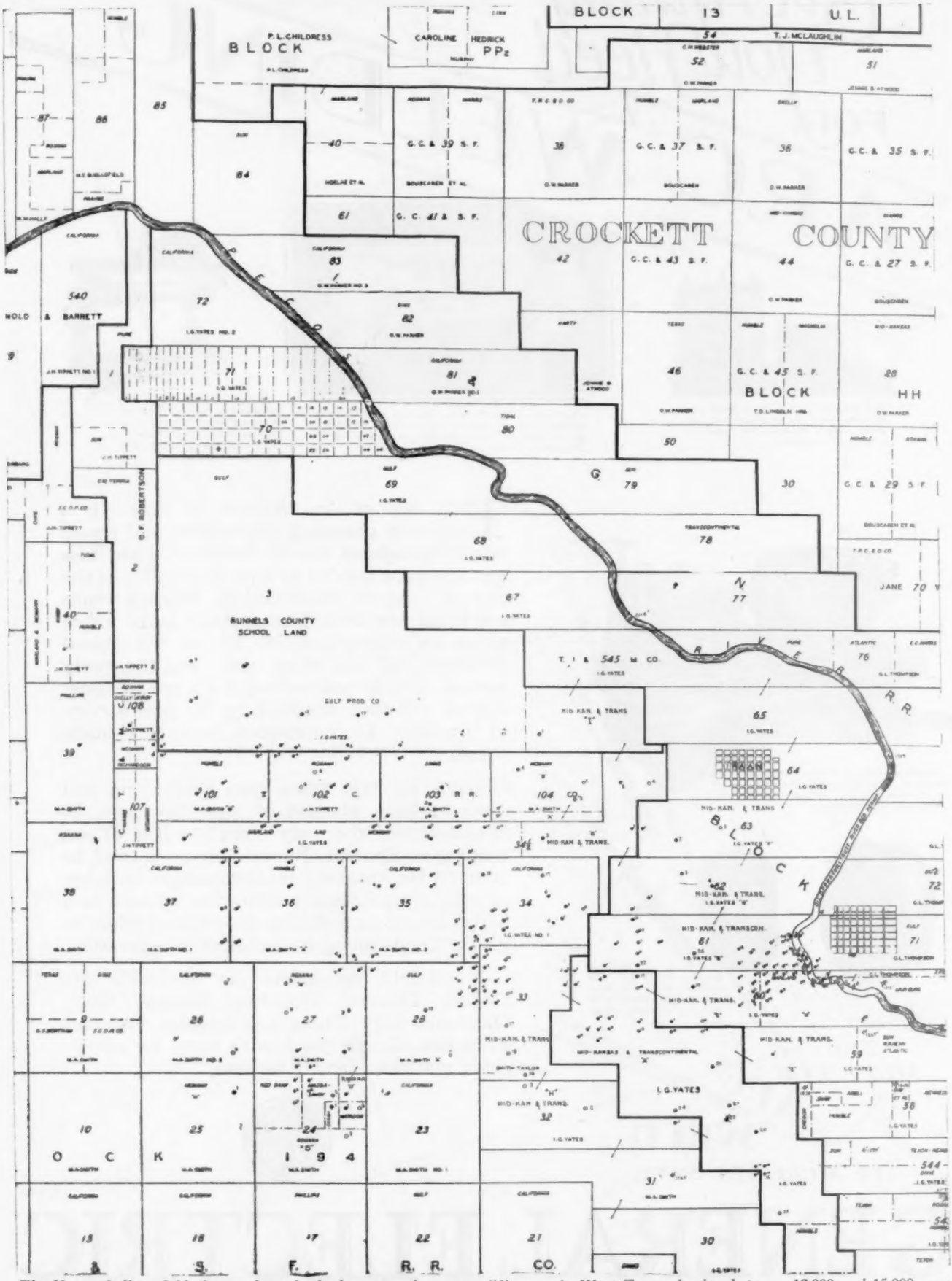
G-E oil-field specialists are available at: Dallas, Denver, Houston, Kansas City, Oklahoma City, Tulsa, Los Angeles, and San Francisco. Get in touch with them for everything you need for arc welding.

530-49H

# GENERAL ELECTRIC

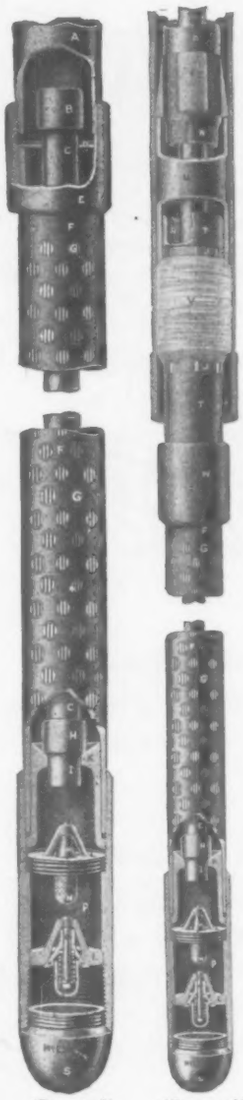
GENERAL ELECTRIC COMPANY, SCHENECTADY, N. Y., SALES OFFICES IN PRINCIPAL CITIES

# YATES FIELD—PECOS COUNTY




*The Yates shallow field shown above is the largest and most prolific area in West Texas, having between 12,000 and 15,000 acres of practically proven territory for flowing oil production, with an estimated potential of 2,575,047 barrels daily according to official proration gauges taken July 1.*

# McEVOY PRODUCTS
## Used the World Over
**YOU MAKE MONEY** by using the 27 years mechanical engineering and oil field experience McEvoy Products represent.



*(Patented)*



*(Patented)*

## McEVOY WIRELESS WELL STRAINER

The illustrations at the left represent McEvoy Wireless Well Strainer with Set Shoe Assembly and Break Out Ring for single string wells . . . and Ratchet Packer and setting tool for double string wells . . both being equipped with wash pipes in their respective manners.

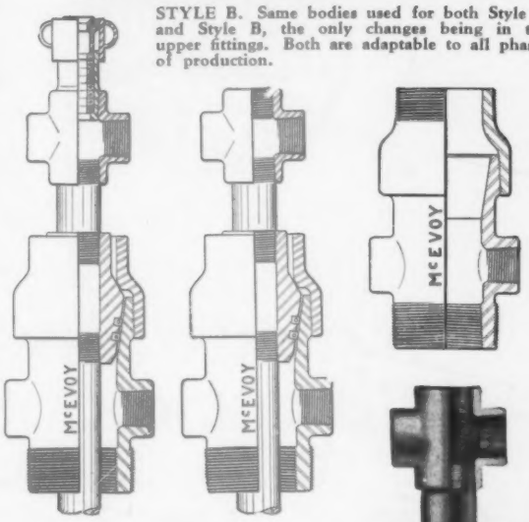
*(Patented)*

## McEVOY WIRELESS FLUSH JOINT

has many advantages over the coupled type under various conditions.

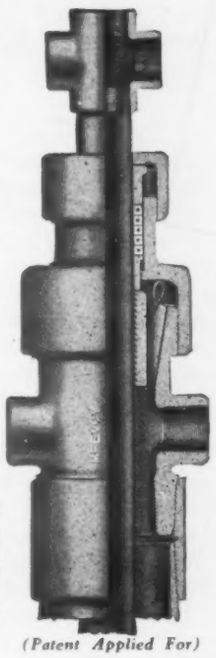
## McEVOY UNIVERSAL CASING AND TUBING CONTROL HEADS

STYLE B. Same bodies used for both Style A and Style B, the only changes being in the upper fittings. Both are adaptable to all phases of production.




## McEVOY UNIVERSAL CASING and TUBING CONTROL HEAD

STYLE A. Changeable for all phases of production.



*(Patent Applied For)*

## REPEAT ORDERS

from many big companies, reflect the superiority of the McEvoy Head for any style hook-up from natural flow, to swabbing oil and gas lift, or to pumping . . . with but few changes in upper fittings.

## WRITE FOR **NEW** CATALOG

# J. H. McEVOY & COMPANY
## HOUSTON, TEXAS, U.S.A.
Pacific Coast Branch: McEvoy Screen Pipe Co., 2428 E. 56 St., Los Angeles, Calif.

## CHURCH & FIELDS AND GULF-McELROY AREAS

*The Church & Fields and Gulf-McElroy areas, located in Northeastern Crane County, reached its peak production late in 1927, but restricted pipe line runs in the former area caused operators to carry shut-in production until early this summer. Gulf controls the entire Gulf-McElroy area, which ranks with the Yates field on undrilled proven area.*

# The Industry Expected It!

## *Magnolia Has Produced It!*

MAGNOLIA ANTI-KNOCK GASOLINE

**Magnolia Fuel Oil Loading Stations**

BEAUMONT CORSICANA
SABINE GALVESTON
FORT WORTH HARBOR ISLAND
LULING CORPUS CHRISTI
DALLAS HERMA, ARKANSAS
MIRANDO

**Refineries Located at**

BEAUMONT, CORSICANA, AND FORT WORTH

**Division Sales Offices**

DALLAS HOUSTON
FORT WORTH SAN ANTONIO
OKLAHOMA CITY
LITTLE ROCK AMARILLO
EL PASO

## POWERFUL, EVEN-BURNING, KNOCKLESS

A Pure Petroleum Motor Fuel which gives quiet, steady, tugging power without over-heating on the long, heavy pulls; a fuel for high and medium compression motors which eliminates "Knock" without penalties for the repair of pistons, valves, or gas lines—such is our latest motor fuel, Magnolia ANTI-KNOCK Gasoline.

For motors of ordinary compression and motors where carbon is not a problem, Magnolia Gasoline, a clean, powerful gasoline, offers the utmost in mileage because it is above the average gasoline in power, quality and purity.

Whatever your power supply, Magnolene lubricants afford the proper protection for the long, youthful life of your mechanical equipment. Magnolene Motor Oils with Paraffine base, in six grades, spread and seal quickly and completely. All Magnolene oils and greases, offering *"a grade for each condition,"* will stay put and defeat wear at all friction points.

*All Magnolia Products Are Obtainable at Magnolia Stations and Dealers*

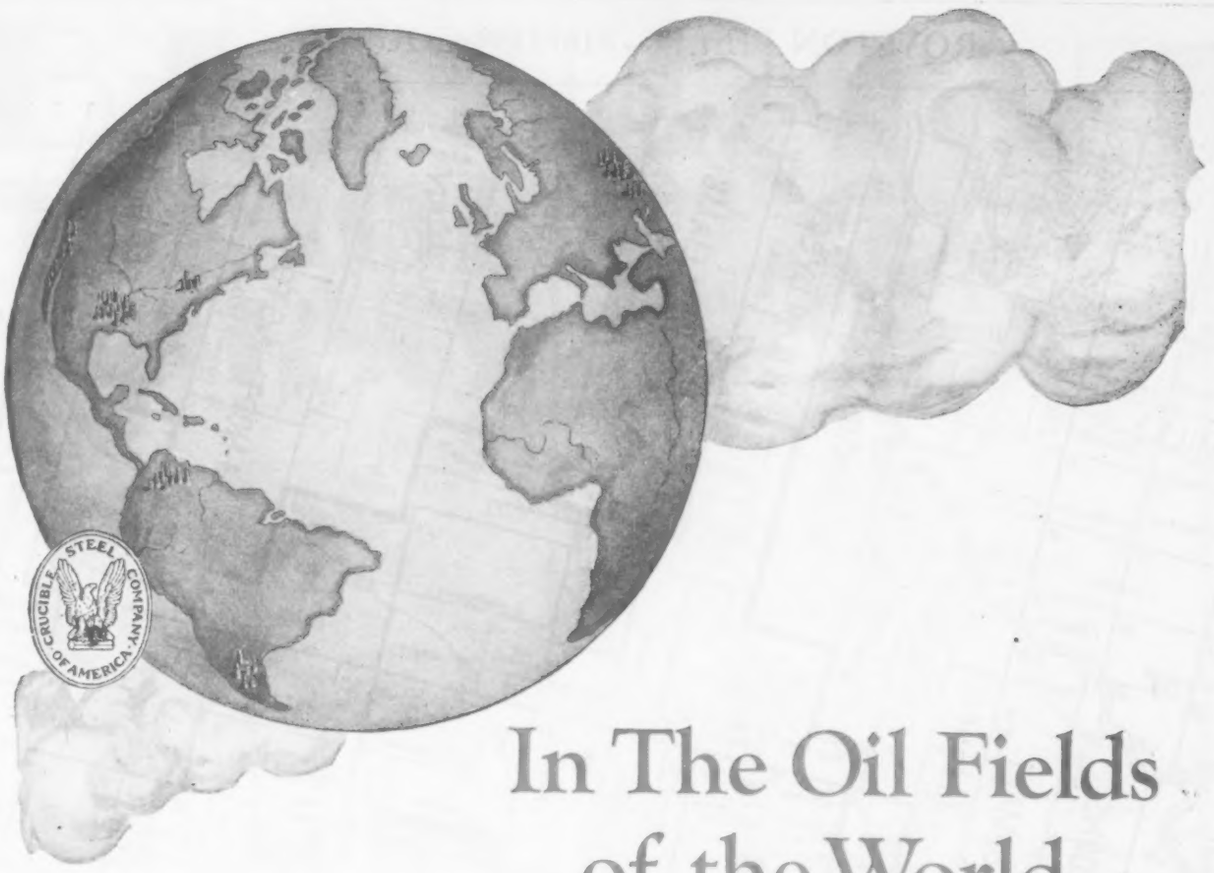
# MAGNOLIA PETROLEUM COMPANY

*General Offices:* DALLAS, TEXAS

*INQUIRIES RESPECTFULLY SOLICITED*

# CHALK-ROBERTS FIELD—HOWARD-GLASSCOCK COUNTIES

*The Chalk-Roberts field, located on the Howard-Glasscock County line, offers four separate oil producing horizons at certain points of the field.*




# In The Oil Fields of the World—

## *You'll Find Crescent Bit and Jar Steels*

***Crescent Hammered Bit Steel***
Furnished in all sizes, in plain sections, or with tong holds drawn to any diameter or taper.

***Crescent Hammered Jar Steel***
Furnished in all sizes, with corners knocked down, nicked in center if desired, and to any length.

***Crescent Hammered Jar Capping Steel***
Furnished in all sizes with corners broken down. Readily welded and heat-treated.

***Calumet Box and Pin Steel***
Furnished in all sizes; cut in short pieces if desired.

***Max-El Slip Steel***
When properly heat-treated, it is possible to obtain great toughness and high physical values; furnished in all sizes and carburizing and straight hardening analysis.

***Max-El Socket Steel***
The best for swivel and stiff sockets; when properly heat-treated, results in high tensile values coupled with toughness resulting in greatest resistance to battering and wear. Furnished in any size, rounds or in billets.

SINCE Crescent Hammered Bit and Jar Steel was employed on the first oil well drilling job at the Drake Well in Pennsylvania over sixty-eight years ago, its use has extended to every prominent oil producing field in the world.

Particularly where rock formations add to drilling difficulties, Crescent Hammered Bit and Jar Steel is preferred. Because of their endurance and cutting power, Crescent Hammered Bits stay in the hole longer, no matter how tough the formation. Experienced drillers know that Crescent Hammered Bits keep to gauge longer and require fewer dressings.

Time and again, where tough going has hampered progress, Crescent Bits have been put in the hole and have made performance records. You can depend upon Crescent Steels—no longer-lasting, more dependable steels for drilling and fishing tools are made.

**CRUCIBLE STEEL COMPANY OF AMERICA**

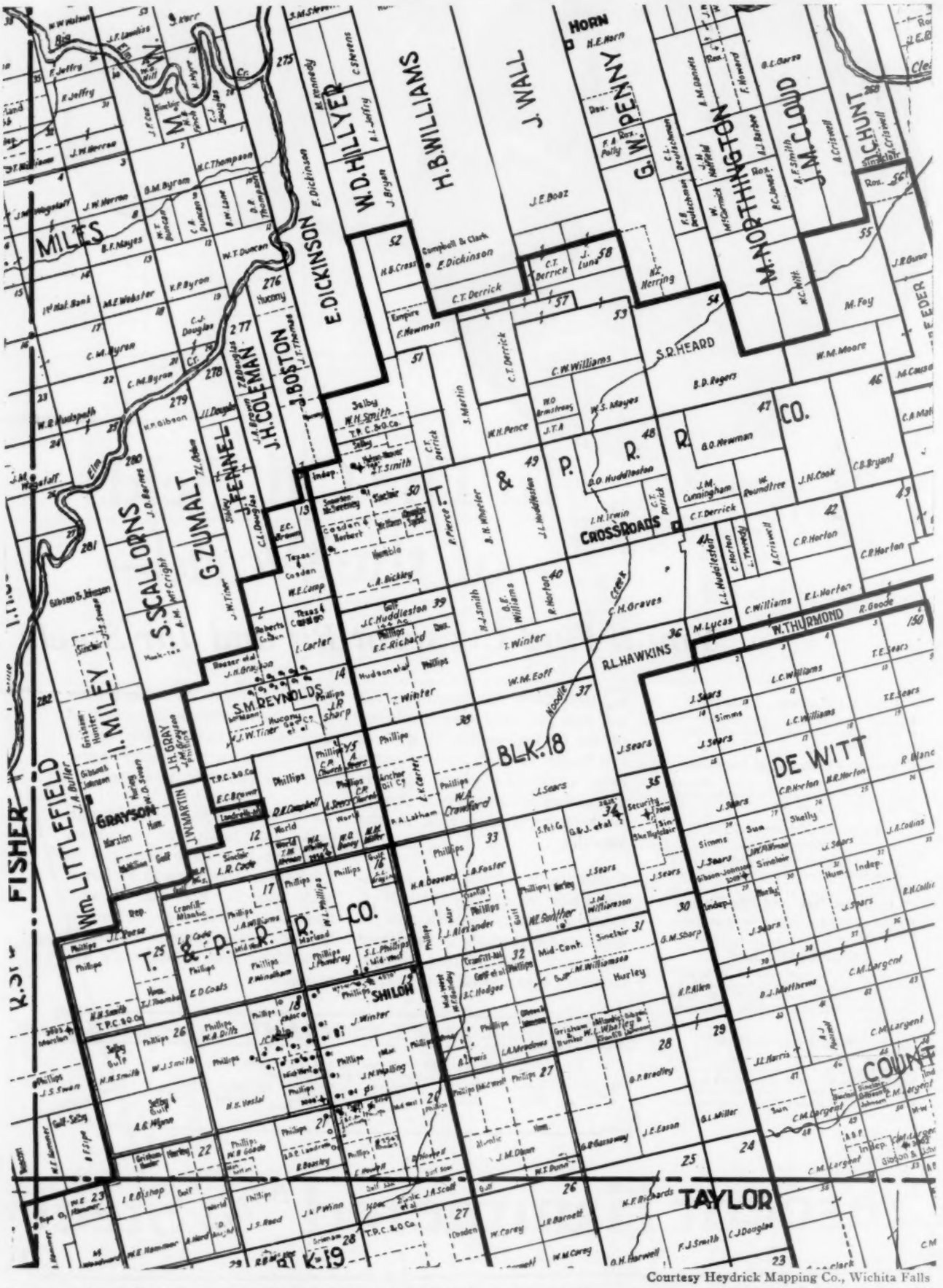
*General Offices:* 17 East 42nd St., New York, N. Y.

BRANCH OFFICES AND WAREHOUSES

Atlanta, Baltimore, Boston, Buffalo, Chicago, Cincinnati, Montreal, Cleveland, Denver, Detroit, Hartford, Indianapolis, Milwaukee, Toronto, New Haven, New York, Philadelphia, London, Pittsburgh, Providence, San Francisco, Seattle, Springfield, St. Louis, Tokio, St. Paul, Syracuse

# Crescent Hammered Bit & Jar Steel

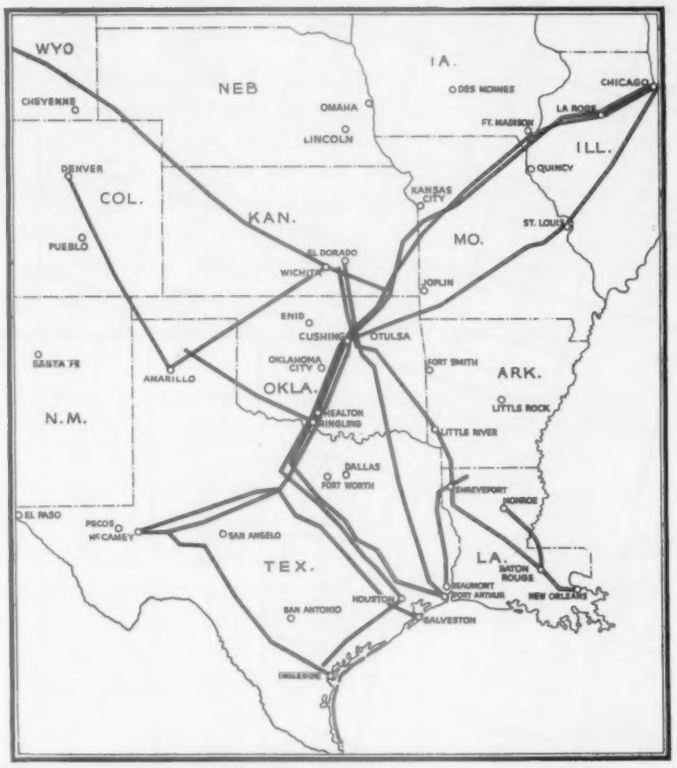
# ROYSTON FIELD—FISHER COUNTY




*Four pumping wells have been completed in the Royston field, located in Northeastern part of Fisher County, from the 3200-foot lime pay, and a large producing area is promised, with Mid-Continent gravity scale prices available.*

# BITURINE

## PIPE LINE COATINGS




## KNOWN AND USED ALL OVER THE MID-CONTINENT FIELDS

BITURINE ENAMEL was first used on Mid-Continent pipe lines in 1916, and has been used in this field continuously since that time. Taking 8″ pipe as a basis for figuring, sufficient Biturine Products have been used in the Mid-Continent field during the past three years to coat more than 6,000 miles of 8″ pipe.

*"Biturine Enamel stands Up"—is unaffected by moisture, acid, alkalis, and electrolysis. Adds years of service by preventing corrosion.*

TRADE MARK

Of the more than 96,000 miles of pipe lines in the United States, over 46,000 miles are laid in the territory represented by the map shown on this page. Of this mileage several thousand miles are protected permanently against corrosion with Biturine Enamel. Lines coated are located in every portion of the territory shown from Chicago to West Texas, and from Denver to New Orleans. Biturine Enamel adheres tightly and permanently to pipe, rendering lines absolutely impervious to corrosive elements, such as moisture, acid and alkali soils, and electrolysis.

## HILL, HUBBELL & COMPANY

*Manufacturers of*

*Highest Grade Oil Industry Paints and Pipe Line Coatings*

Factories at SAN FRANCISCO and TULSA

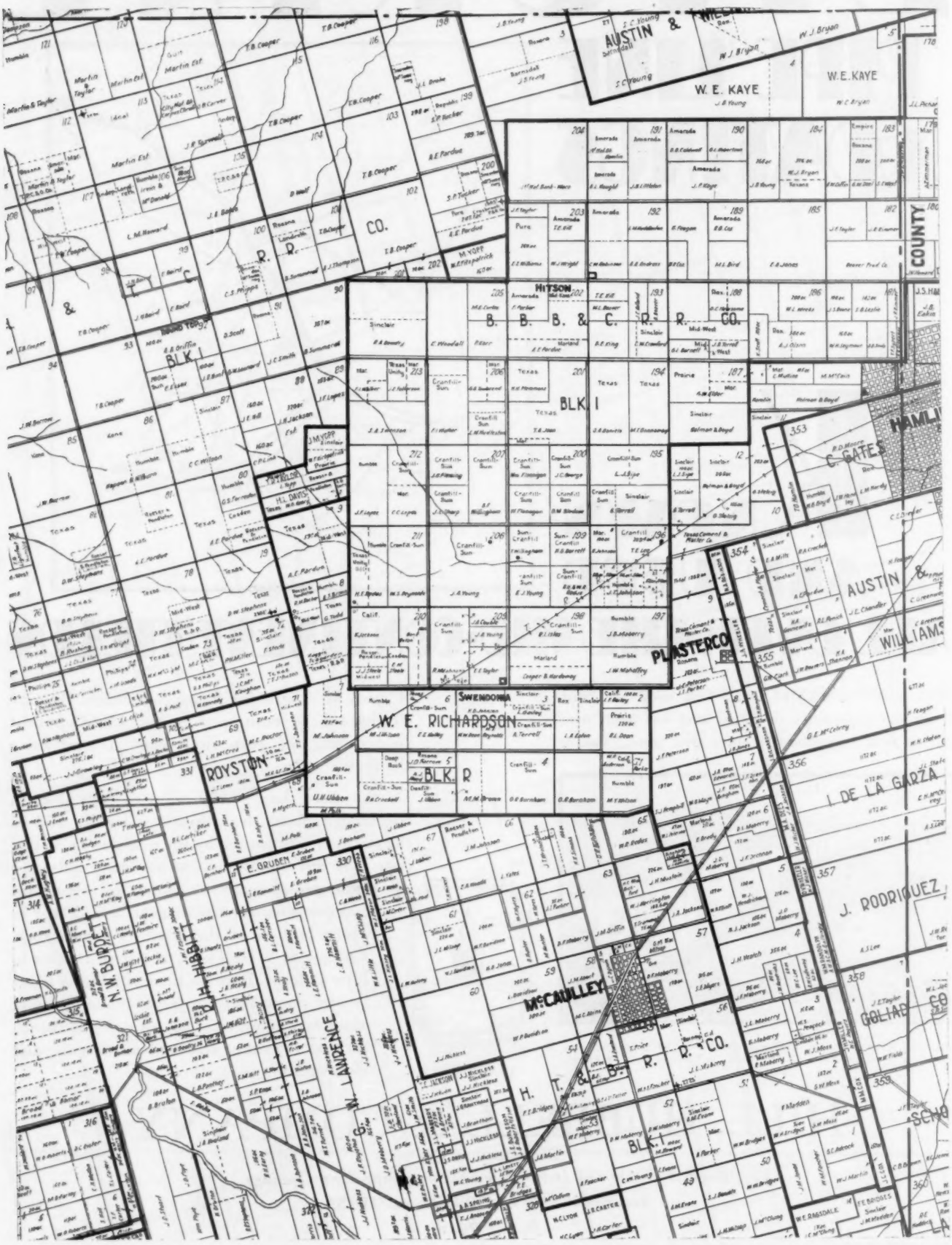
*District Offices:*

LOS ANGELES HOUSTON NEW YORK CITY

SEATTLE PORTLAND BALTIMORE

*Say you saw it in The OIL WEEKLY*

# NOODLE CREEK FIELD—JONES COUNTY




Courtesy Heydrick Mapping Co., Wichita Falls

*Showing the Noodle Creek field, Jones County, with the new Tiner-Smith area, located to the north.*

# Hardens Quickly and Evenly
## —*Without Accelerators or Admixtures!*

LARGE operators throughout the Mid-Continent Field have found Oilmax Cement a great time and money-saver in setting casings, shutting off water, straightening crooked holes, plugging back, cementing off lost tools, filling cave-ins or caves and all difficult bottom hole work. Because, used neat only, it gets as hard in 24 hours as Portland Cement in ten days—*and requires no accelerators or admixtures.*

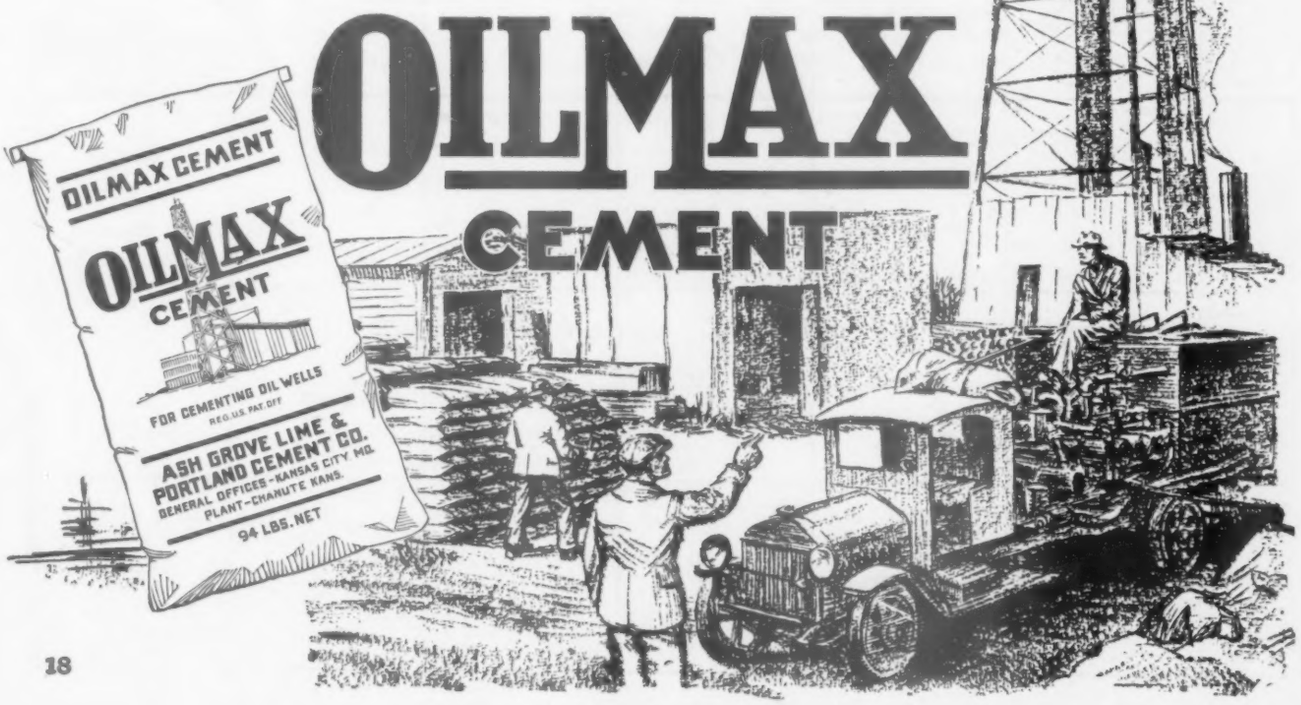
That's why casings can be set with Oilmax today and drilling operations resumed in 48 hours at the most. Oilmax always sets and hardens *evenly.* With a uniform mix, made easy because only water is added, weak or soft spots are *eliminated.*

Oilmax Cement will set up satisfactorily under the unfavorable conditions common to oil field operations. It is specially compounded to set up normally in salt water or water containing oil, sodium chloride, magnesium chloride or calcium sulphate. But it is *not* quicksetting. It takes its initial and final set just like Portland Cement, allowing ample time for mixing and placing, no matter how deep the hole.

Oilmax is a true Portland Cement, meeting all Govt. and A.S.T.M. specifications. It is unusually plastic, slips easily and quickly and will work equally as well in bailer or pump. Speed up your drilling operations. Cut costs by saving time and averting expensive mishaps. Use Oilmax—and be sure of a job!

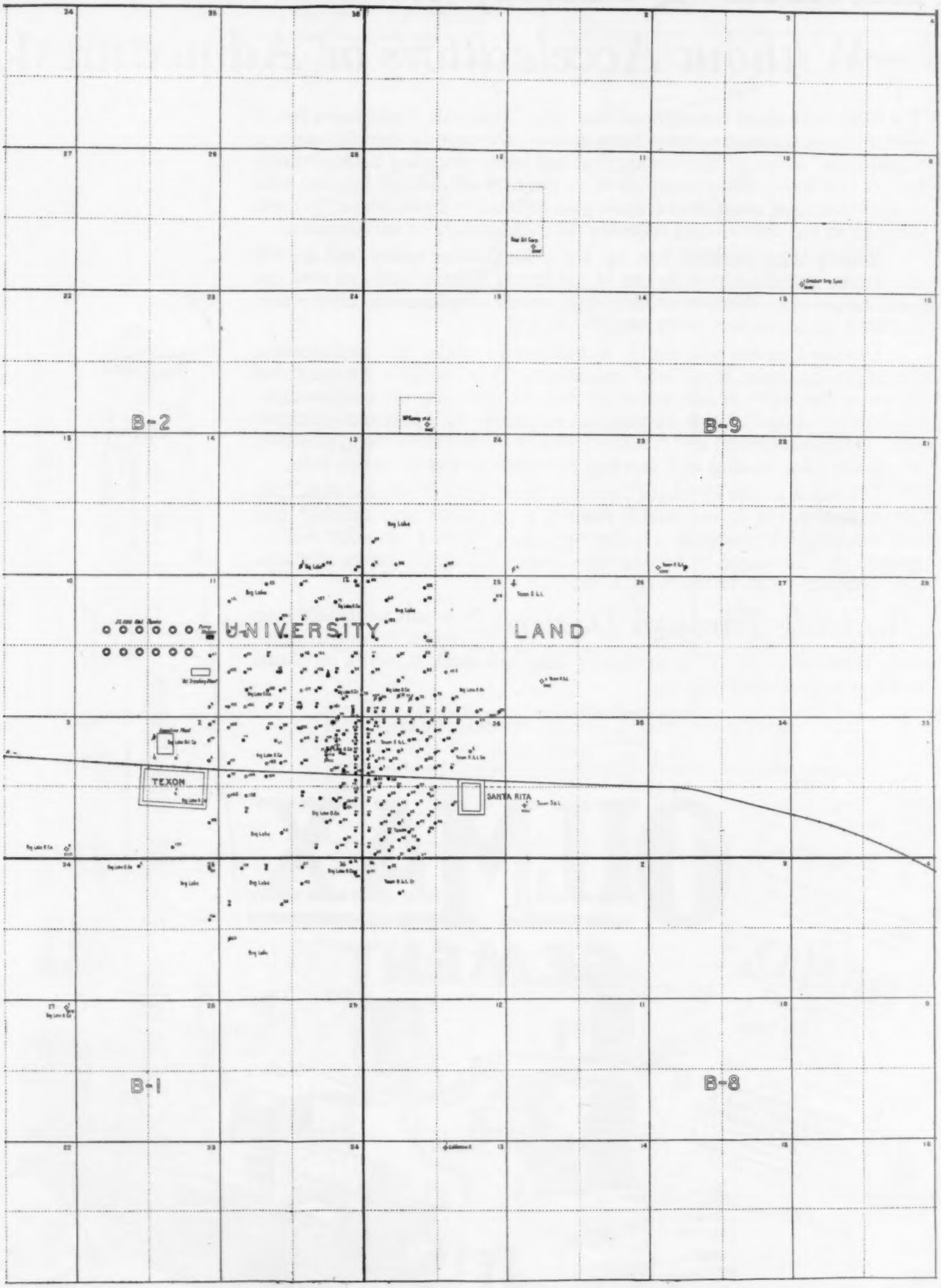
***Available Through Dealers***—You can secure Oilmax Cement through legitimate retail dealers. If your dealer does not stock it, write or phone us for complete information.

*Produced Only by*
ASH GROVE LIME & PORTLAND CEMENT CO.
*Founded in 1882*
*General Offices:* KANSAS CITY, MO.
*District Sales Office:* OKLAHOMA CITY, OKLA. Petroleum Bldg., Phone Maple 0642.




18

# BIG LAKE FIELD—REAGAN COUNTY

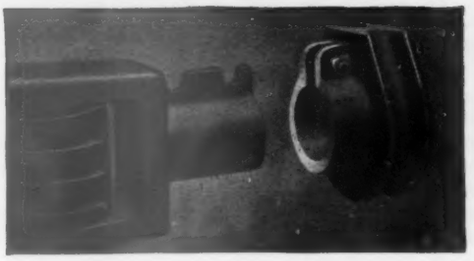



*The Big Lake field, Reagan County, shown above, is the first major oil strike in West Texas, and is not 50 per cent. drilled up, owing to all producing area being controlled by the Big Lake Oil Company and Texon Oil & Land Company.*

# D+B *Simplex* Adjuster Grip....

*Showing Simplicity of Complete Assembly*

## *More powerful leverage is not possible!*



IN the D+B Simplex Adjuster Grip, the leverage necessary to grip the polish rod is obtained by means of the powerful toggle principle. The clamping pressure is greatly intensified by the application of the toggle action, so that a minimum wrench pressure is required on the clamping nut in order to set up a sufficient gripping pressure on the rod.

The clamping jaws are brought into or swung out of the operating position by a few turns of the adjusting nut, which permits quickly engaging or disengaging the polish rod for rod spacing.

The D+B Simplex Adjuster Grip is made entirely of steel. All parts are accurately machined: resulting in smooth and positive action of the complete mechanism. Clamping jaws are machined to fit either 1⅛" or 1¼" polish rods. When ordering specify size of polish rod.

Cable thimbles are supplied, ready to receive the wire line. It is only necessary to clamp a piece of one-inch cable in position, using standard cable clamps. To adjust the position of the cable thimble to suit the cable suspension device on the beam, remove the small lock bolts from the body of the thimble and replace them in an indexing notch to meet the particular condition at hand.

The sheave used with the grip automatically equalizes the tension on the cables. This eliminates the necessity for individual adjustment of screws or bolts.

*Emsco steel equipped wells are safe*

**D&B DIVISION**

Protected by Steel

EMSCO EQUIPMENT CO.

EMSCO DERRICK & EQUIPMENT COMPANY
LOS ANGELES, CALIF., HOUSTON, TEXAS-DALLAS, TEXAS
U. S. A.

EXPORT OFFICE: 150 BROADWAY
NEW YORK CITY, N.Y.
U. S. A.

# Dozen New Prospective Fields Found in West Texas

## Success of wildcat effort during 1927 and first half of 1928 was not so great as previous period; only one area promises much

By H. H. KING
*Staff Representative*

SAN ANGELO, Texas.—The problem of uncovering a sufficient number of new oil producing areas in the West Texas district to supply the demand of local refineries, tank car shippers and trunk line systems after present flush fields are reduced to a small daily output, was partially answered during the past 12 months by the establishment of a number of pools. Only one of the group of wildcat discoveries made during this period carries the earmarks of a flush field resulting from additional development, while the remainder of the 10 new discoveries indicate small caliber production. Although wildcat activity was conducted on almost as large a scale during the past year as was the case during the previous 12 months, the number of successful strikes was less and located in counties that are lacking in flush fields.

### North Winkler County

The opening of two separate oil producing areas along the "high lime" extending to the north of the Hendrick field structure, Winkler County, is generally accepted as being the most promising territory for flush production in the district at present. The Llano Oil Company and Roxana Petroleum Corporation's Scarborough wildcat pumper, which was listed in last year's report as a semi-completion, has been followed by a second pumper on the same lease, while both oil and gas production in commercial quantities were established across the state line in New Mexico shortly after this discovery. The Llano area broke into the limelight early last May when Gibson-Johnson et al (now Atlantic Oil Producing Company et al) brought in a big producer on the Leck-Daugherty land, located about three miles southwest of the Llano pumpers. However, the Leck-Daugherty drilled into water with rotary before making a test of the oil pay, and made a large volume of water with about 50 million cubic feet of gas and an estimated flow of 4,000 barrels of oil. This well is now being tested before making an attempt to shut off the bottom hole water, with indications of being a 1,000 barrel oil well in its present status.

Performance of the Leck-Daugherty well has caused the surrounding area to be rated as a potential threat to the crude market, if unrestricted drilling is permitted, and lease owners have voluntarily held back on developments until the Hendrick field, located about nine miles to the south, is disposed of. A third test has been carried to the top of the big lime and shut down by Llano Oil Company and Roxana Petroleum Corporation on the Scarborough ranch, near the New Mexico line, through an agreement reached with the land owner, while Empire Oil & Gas Company is starting a south offset to the Leck-Daugherty producer, and will complete same for drainage protection. Texas Pacific Coal & Oil Company's Daugherty 1, located in the southeast corner of Section 4 and one-quarter mile southwest of the Leck-Daugherty producer, is also being carried to the big lime, with plans to shut down until conditions justify a show down on the area.

A complicated situation is threatened in the event a prolific field is developed in the Llano area, as the structure is believed to extend across the state line to the Texas-Amerada-Columbian Carbon's Rhodes oil and gas well and Marland-California Company's gasser on the Eaves permit land. A rigid proration plan would be applied by the Texas Railroad Commission on the Texas side to avoid waste and over-production, and prevent a repetition of the early development of the Hendrick field, while proration enforcement may not be so agreeable to New Mexico lease and royalty owners. The current production of other West Texas fields is taken into consideration when applying proration rules to new fields, while in New Mexico the one great problem has been to get the oil coming in substantial quantities, and it will be somewhat difficult to check a prolific new field before it has had a free run of drilling and production.

Another half year will probably elapse before the Texas-New Mexico structure is proven sufficiently to assure a major producing area, and by this time the Hendrick field will have dissipated the bulk of its flush output. The large tank farms, trunk lines and gathering lines, terminating at refineries and tank car racks on the T. & P. Railroad, built to handle the Hendrick field's flush output will then be available to serve the area to the north, thus giving a double life to the Hendrick field transportation facilities.

### Howard-Glasscock County

The so-called deep lime horizon at the 2500 and 2900-foot levels in the western part of the Chalk field, located on the Howard-Glasscock County line, is destined to register the most active drilling campaign during the next three months, although actual production from these pays is to be restricted to a basis of 50 per cent of the potential output under proration rules set up by the Texas Railroad Commission after being recommended by the operators. The 2900-foot pay was uncovered on the Roberts land by Magnolia Petroleum Company last October with a 3,300-barrel 28-gravity producer after missing the shallow sands, and the 2500-foot pay was later developed in drilling to the lower horizon. These two deep pays now have about 20 completed wells rated good for 30,000 barrels daily, and at present all are shut in by mutual agreement and also for lack of a market. The market outlet is soon to be available in a quantity that will exceed allowable production, because of three new local refineries, and at least three major pipe line connections. The field will be prorated, effective August 1, on a basis of average potential production and 40-acre units, and operators will place many 40-acre units on production in order to earn a larger pipe line quota, thus materially boosting drilling in the field over the next three months.

A steady but conservative drilling campaign is destined for the Royston high gravity field uncovered in eastern Fisher County last January by The Texas Company, and a large producing area is now assured, with four wells on production from the 3200-foot lime pay. Only a few independent and major companies share in this field, and some arrangements have been made toward proper spacing of wells to eliminate wasteful drilling. Both Humble and Texas are crude purchasers in this area and Mid-Continent gravity prices are paid. Across the line to the southeast in Jones County, two closely located wildcats developed production from the Noodle Creek field sandy-lime horizon, and the first group of nearby tests are scheduled for completion within a few weeks. Frank Hutson, R. M. Weaver Jr., and F. E. Shaheen's A. T. Smith 1-A made the first discovery north of the Noodle Creek field with a 75-barrel pumper last January, and a second strike to the southwest was made last May by the Hucony Gas Company and

(Continued on page 100)

Chisholm-Moore manufactures a complete line of overhead material-handling equipment. Below are a few C-M products. The catalog describes them all. Write for it.

*Model K Cyclone*

*Matchless Trolley*

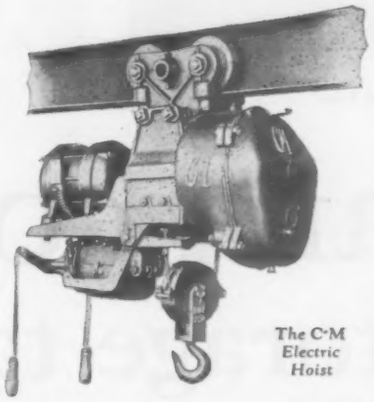
*Double I-Beam Crane*

*Low Head-room Hoist*

*Cupola Charging Machine*

# Six Husky, Tireless Laborers for 2c an Hour Apiece!

MATERIAL handling costs certainly would drop in a hurry if you could hire dependable labor at a figure like that. And the best part of it is you can!



*The C-M Electric Hoist*

**A C-M ELECTRIC HOIST** will easily do the work of six men — in many cases as many as ten men have been released for more productive labor—at a fraction of the cost of one man.

Their extreme simplicity of construction and operation make it possible for any workman with only a slight mechanical knowledge to operate and care for them. And because of the special alloy steels and metals and the many anti-friction bearings which go into this simple construction, maintenance costs and the necessity for repairs are practically eliminated.

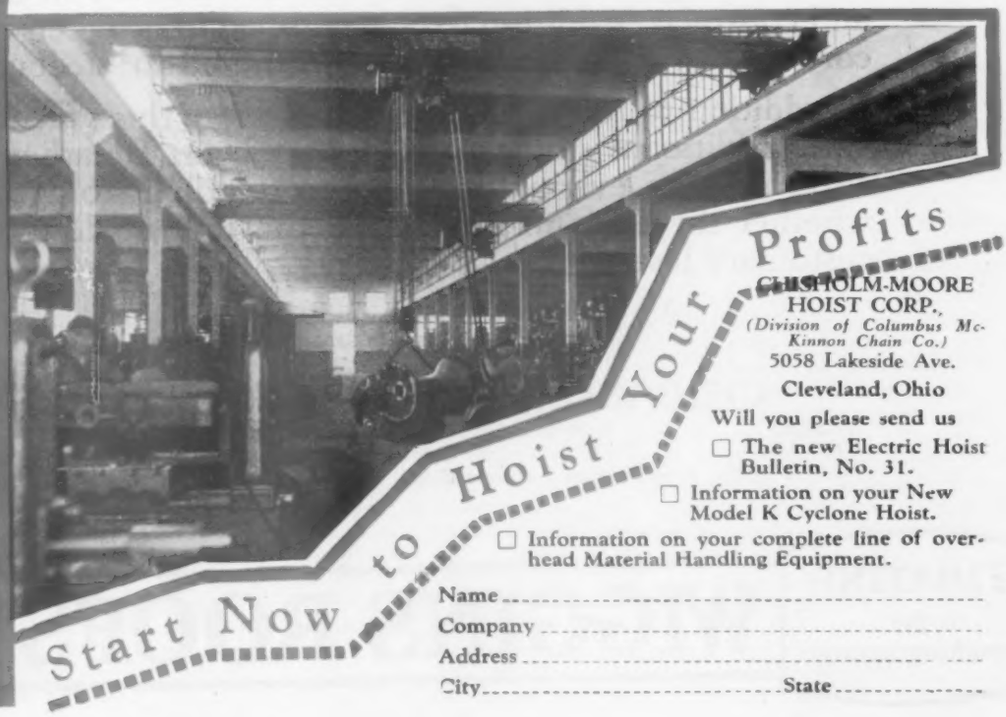
Write for Bulletin No. 31 which gives many suggestions for the use of these hoists.

CHISHOLM-MOORE HOIST CORPORATION
*(Division of Columbus McKinnon Chain Co.)*
5058 Lakeside Ave., Cleveland, Ohio

*Branches:* New York Philadelphia Chicago Pittsburgh
*Representatives in all principal Cities for Quick service*

## CHISHOLM-MOORE

CHAIN HOISTS — CRANES TROLLEYS CUPOLA CHARGERS — ELECTRIC HOISTS



Start Now to Hoist Your Profits

CHISHOLM-MOORE HOIST CORP.,
*(Division of Columbus McKinnon Chain Co.)*
5058 Lakeside Ave.
Cleveland, Ohio

Will you please send us

☐ The new Electric Hoist Bulletin, No. 31.

☐ Information on your New Model K Cyclone Hoist.

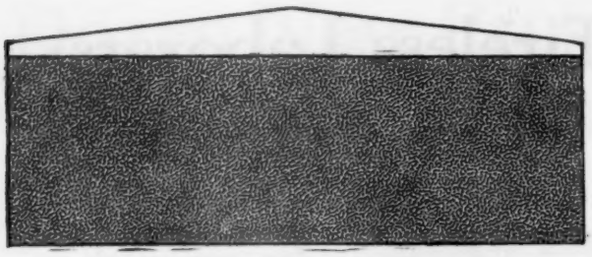
☐ Information on your complete line of overhead Material Handling Equipment.

Name _____

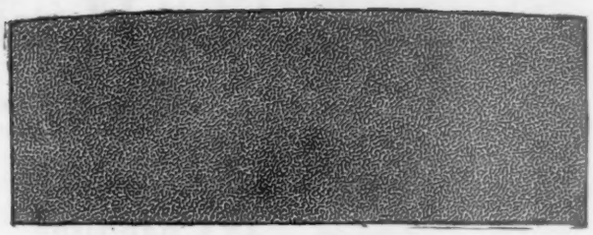
Company _____

Address _____

City _____ State _____



*Ordinary cone roof*



*Wiggins Breather Roof*

# Retard corrosion of storage tank roofs

It has frequently been noted that the roof plates of a standing storage tank containing sulphur oil corrode much more rapidly than the sides of the same tank below the oil level. This apparently demonstrates the advantage of keeping oil in contact with the steel in controlling corrosion from "sour" oil.

Acting on that principle, a number of oil companies having Wiggins Breather Roofs on their storage tanks are filling them right up against the roof. By pumping in oil until the air is exhausted from the tank and the roof is domed slightly upward and riding directly on the surface of the oil, corrosion is greatly retarded.

This practice is made possible by the construction of this roof which permits it to flex up and down as the oil expands and contracts. Additional oil is pumped in or taken out, according to the season, to maintain the oil-to-steel contact.

In addition to the reduction in corrosion, this practice provides additional storage capacity. Wiggins Breather Roofs also eliminate evaporation loss on standing storage tanks, whether the oil is maintained at the roof or down at the customary level.

*Ask our nearest office for an estimate on Wiggins Breather Roofs for your standing storage.*

## CHICAGO BRIDGE & IRON WORKS

| | | | |
|---|---|---|---|
| DALLAS . . . | 1638 Magnolia Bldg. | CLEVELAND . | 2241 Union Trust Bldg. |
| CHICAGO . . . | 2142 Old Colony Bldg. | SAN FRANCISCO . | 1050 Rialto Bldg. |
| NEW YORK | 3144 Hudson Terminal Bldg. | HAVANA, CUBA . | Apartado 2507 |

**FLOATING** *for working storage* **WIGGINS ROOFS** **BREATHER** *for standing storage*

O. W. 7-27-Gray

# Stronger Companies Quick to Buy Wildcat Discoveries

## List of transactions in wildcat acreage in West Texas since first discovery shows substantial sums paid for lease rights of discoverers

By H. H. KING
*Staff Representative*

SAN ANGELO, Texas—West Texas wildcat discovery wells drilled by independent companies and individuals have found a ready market with the major operators and larger independent units, and considerations involving more than $7,500,000, payable in cash, or oil as produced, have been received for the disposal of all or part interest in 22 of the 41 separate wildcat producers completed in the district.

Major companies have been the most aggressive in acquiring control of discovery wells and surrounding acreage, and the incentive to buy in at the early stage of development by these large units largely comes from the remarkable success enjoyed by the purchaser of the control of the Big Lake field discovery well and block. Buyers of controlling interest in the drilling blocks and discovery wells of the Big Lake, Church and Fields and Hendrick fields are the only ones that have participated in flush production of any consequence out of the 22 discovery well sales.

### Payments in Oil

Oil payments have figured prominently in the considerations paid for discovery wells, and on many of the deals involving small production these payments will be dragged out over a long period of years. The establishment of gas producing areas in commercial quantities has preceded the discovery of oil production in nearly every instance, and it was due to this almost unbroken rule that discovery gas wells were sold by owners in Crockett and Val Verde Counties.

The principal sales made for involving West Texas wildcat discovery wells are itemized below, giving names of seller, buyer, consideration and general outline of properties involved, and such information offers a good comparison for use in determining values of future wildcat wells.

Within two months after the completion of a high gravity oil producer on the McMillan farm in Runnels County by Lou Ladd, Ed. S. Hill, C. E. Sillix et al, a one-half interest and operating control of the well and 3120 acres of surrounding leases was acquired by Vacuum Oil Company for a cash consideration of $150,000 and two free wells.

J. S. Cosden and associates sold one-half interest and operating control of their wildcat oil producer on the W. F. Connell ranch, Ector County, and about 10,250 acres of nearby acreage to The Texas Company August 10, 1927, for a cash consideration of $150,000 and two free wells. The discovery well was pumping about 20 barrels of 35 degree gravity oil daily from lime at 3465-82 feet after shot, with a total depth of 4002 feet, at the time of the deal, and nearby test had been drilled to the lime pay for a small pumper. The Texas Company has since completed the two free tests as failures. The gravity of the oil produced on the Connell ranch is about five degrees higher than that found in two adjoining counties, where flush fields have been developed, and it was largely due to this better quality of oil that The Texas Company purchased the operating control.

Kemper Kimberlin and Texon Oil & Land Company, operating on a 50-50 basis, completed a 15 barrels 20 degree gravity oil pumper in February, 1927 from sand at 1268-73 feet, with a total depth of 1300 feet, and on February 14, 1927 the former sold his one-half interest to Texon for a cash consideration of $160,000 and a similar amount payable out of 7/16 of the first oil produced. The well was drilled near the center of section 55, block 1, I.&G.N survey, and on a 640-acre tract. It is located about three miles southeast of the Yates field, and in Pecos County. This discovery well is now shut in for lack of a market, but is rated good for 10 barrels daily. A second test drilled last summer for a small pumper is also shut in.

### Atlantic Brings in Two

Atlantic Oil Producing Company, Dallas, has purchased one-half interest in two wildcat discovery wells. One-half interest in the North Winkler County oil producer completed May 9, 1928, with an estimated flow of 4000 barrels of oil and lots of gas and water at 3167 feet by H. F. Gibson, F. Kirk Johnson et al on Leck-Daugherty 80-acre lease was purchased by Atlantic about July 6, 1928, for a cash consideration of $50,000 and $50,000 payable from oil produced. James M. Kessler and David Logan, Oklahoma operators, retained their one-half interest in this well and 80-acre lease, but Atlantic assumed operating control. In connection with this purchase, Atlantic paid Gibson & Johnson Interests $37,500 cash and an additional sum of $20,000 from oil, if produced, for 7/8 interest on two nearby 80-acre tracts. Atlantic is now making an attempt to reduce the volume of water coming with the oil from this wildcat, with prospects of making better than a 1000 barrels daily producer. The completion of a 3,000,000 cubic foot dry gasser by O. O. Owens et al on a wildcat block of 80,000 acres in Val Verde County in June, 1927, led to the sale of an undivided one-half interest in the gasser and block to Atlantic in September, 1927, for a reported consideration of $400,000, part cash.

One-half interest in the Llano Oil Company's wildcat discovery well on the W. F. Scarborough ranch, located in North Winkler County, and a block of about 3660 acres was acquired by Roxana Petroleum Corporation May 19, 1927, but in connection with this deal Roxana pooled 1400 acres of leases that had been previously purchased from Llano for $39,000, thus making the total acreage 50-50 with Roxana and Llano. Roxana paid $55,000 cash to perfect this pool, and assumed operating control of the properties which included a small pumper in process of completion. Llano's share of the drilling expense is to be borne from oil produced.

### Westbrook Field

This discovery well of the Westbrook field, Winkler County, was sold by the Underwriters Producing & Refining Company of Oklahoma City to The California Company, production subsidiary of the Standard of California, in November, 1923, for a cash consideration amounting to approximately $650,000. The leases involved in this deal amounted to approximately 8000 acres, with seven pumping wells averaging about 400 barrels daily.

Controlling interest in the discovery well of the Big Lake field and 16 sections of leases were turned over to the Big Lake Oil Company, subsidiary of the Plymouth Oil Company, by the Texon Oil & Land Company November 15, 1923. Texon received approximately $200,000 cash, which represented expenditures made on the property prior to the surrender of the well to the new owners, and one-fourth of the $4,000,000 capital stock of the Big Lake Oil Company, while the latter also drilled four free wells on opposite sides of the discovery well.

The World Company, wildcatters and publishers with headquarters at Fort Worth, disposed of the discovery well of the World-Powell field, Crockett County, prior to the completion of the well to Humble and Marland Oil Company on June 10, 1925. The consideration involved in this deal called for the drilling of four free tests within one year on opposite sides of the discovery well, and the payment of $1,400,000 of which $350,000 was cash; $350,000 out of 7/16 of the first oil produced; $350,000 payable out of 7/32 of the next oil produced; and $350,000 payable out of one-eighth of the next oil produced. About 2500 acres of leases were involved in this deal. Humble has the operating control of this property.

J. C. Cooke and associates sold to The Texas Company a small gas well on the J. S. Todd ranch, Crockett County, while the test was believed to be making a small amount of oil in top of the lime pay. This deal was closed February 17, 1926, and involved the payment of a cash sum of $250,000 and an additional sum of $400,000 payable out of one-third of the first oil produced. About 1870 acres of leases were included in the transaction. Deeper drilling conducted by The Texas Company on this gas well failed to increase the flow of gas, or uncover oil production, and the well is now shut in as a gasser.

### McCamey Field

J. P. Johnson and Geo. B. McCamey, Fort Worth operators, disposed of their three-fourths interest in a drilling block of 750 acres of the Mrs. Baker No. 1, which was the discovery well of the McCamey field, Upton County, to the Republic Production Company, Houston, on October 1, 1925, for a cash consideration of $200,000, and an additional sum of $300,000 payable in notes. This deal was officially closed on October 14, 1925. Marland held the remaining fourth interest in the well and block, but sold same to Republic in June, 1928, for a cash consideration of $7,500.

A one-half interest held jontly by Joe C. Maxwell and L. C. Turman, Fort Worth operators, with Independent Oil & Gas Company in a drilling block of 1800 acres surrounding the Independent-Taylor discovery well, located on the Crane-Upton County line, was purchased by Independent about June 10, 1026, for a cash consideration of $375,000.

The ownership of the discovery well of the Church & Fields area, Crane County, was divided up more than any other strike made in the district. George Church and Bob Fields sold their one-sixth interest in the 40-acre lease bearing the discovery well, and full interest in about 1280 acres of surrounding leases to Magnolia Petroleum Company for a cash consideration of $150,000, and an additional sum of $250,000 payable out of one-third of the first oil produced by Magnolia. This deal was closed April 4, 1926, although Magnolia contracted to buy the property March 25, 1926. Magnolia assumed operating control of the discovery lease.

Tidal Oil Company gained a half interest in the one-fourth interest owned by Joe C. Maxwell and L. C. Turman in the Church & Fields 40-acre discovery lease, and a half interest in about 1400 acres of leases held by Maxwell & Turman in vicinity of the discovery well on April 21, 1926, paying $150,000 cash. Tidal assumed operating control of the undeveloped leases through this deal.

The discovery well of the Chalk shallow field, Howard County, and 1030 acres of checkerboard leases was sold by Owen & Sloan, independent operators with headquarters at Colorado, Texas, to the Magnolia Petroleum Company on August 25, 1926, for a cash consideration of $100,000 and an additional sum of $175,000 payable in oil.

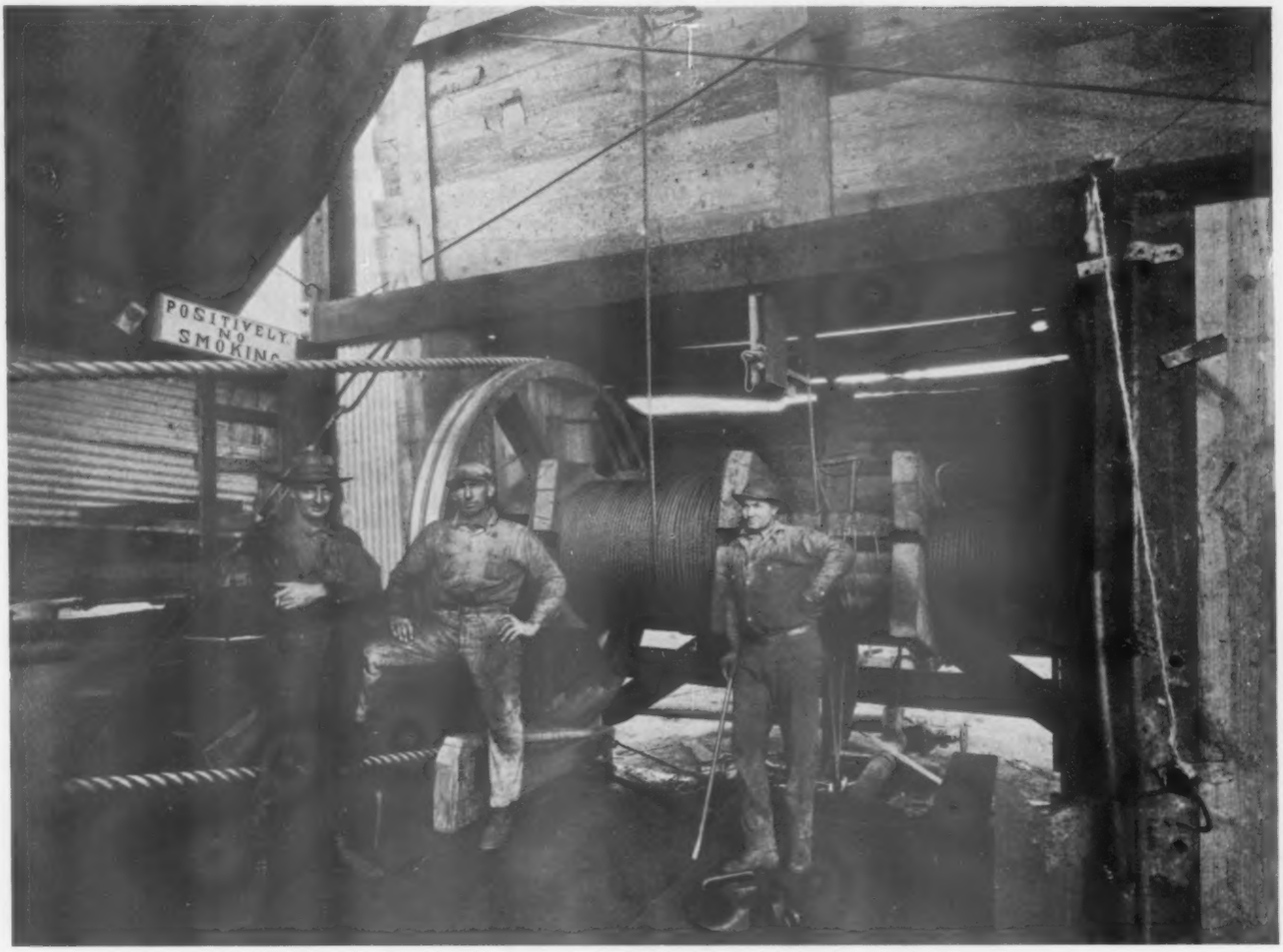
Marland Oil Company gained possession of the discovery well of the Clay-Hyer field, Howard County, which later became connected with the Chalk field, through the purchase of about 1200 acres surrounding the well from Fred Hyer and associates of Fort Worth for a cash consideration of $100,000, and $150,000 payable from oil produced. This deal was closed in December, 1926, and deeper drilling more than tripled the output of the well.

Southern Crude Oil Purchasing Company, which is one of the trio of subsidiaries of Standard Oil Company of Indiana engaged in building up production in West Texas, made its first appearance November 22, 1926, in buying the discovery well of the Hendricks field, Winkler County, from R. A. Westbrook and associates of Fort Worth, paying $255,000 cash, and a similar amount out of the first oil produced. This deal involved 17 80-acre and two 40-acre tracts, including the 40 acres containing the discovery well. The 40-acre discovery lease and the well, which was making 135 barrels daily at the time of the deal, was valued at $80,000 in the above purchase.

# West Texas Discovery Wells

| Discoverer and Lease Name— | Elev. | Top Salt | Top Lime | Prod. Horizon | Total Depth | Date Completed | Init. Prod. | Present Prod. | Gravity |
|---|---|---|---|---|---|---|---|---|---|
| **CRANE COUNTY** | | | | | | | | | |
| **Taylor-Hughes Field** | | | | | | | | | |
| Independent-Turman & Maxwell (now Independent O. & G. Co.'s) Len Taylor 1 | 2474 | 450 | 2030 | 2038-45 | 2045 | 2-24-26 | 140 | 40 | 28-30 |
| **Church & Fields Field** | | | | | | | | | |
| Church & Fields et al (now Magnolia Pet. Co. et al's) University 1 | 2601 | 1145 | 2925 | 3038-40 | 3040 | 4-19-26 | 190 | 15 | 30-33 |
| **Gulf-Waddell Field** | | | | | | | | | |
| Gulf Prod. Co.'s W. N. Waddell 2 | 2744 | 1170 | 3068 | 3194-3500 | 3519 | 8- 4-27 | 30 | 17 | 32 |
| **Gulf-McElroy Field** | | | | | | | | | |
| Gulf Prod. Co.'s J. T. McElroy 1 | 2592 | 1000 | 2661 | 2728-2833 | 2833 | 7-21-26 | 600 | 185 | 32-33 |
| **CONCHO COUNTY** | | | | | | | | | |
| Arkansas Fuel Oil Co.'s S. A. Hartgrove 1 | 1667 | .... | .... | 1110-40 | 3236 | 5-20-27 | 1 Mil. ft. gas shut in | | |
| **CROCKETT COUNTY** | | | | | | | | | |
| **World-Powell Field** | | | | | | | | | |
| World Oil Co. (now Humble-Marland Prod. Co.'s) L. P. Powell 1 | 2809 | 1173 | 2572 | 2644-47 | 2647 | 6- 8-25 | 25 | 30 | 28-30 |
| **Shaffer-University Field** | | | | | | | | | |
| Wm. Schaffer-Cerf et al's University 1 | 2639 | 1030 | .... | 2175-95 | 2368 | 12-10-26 | 10 | co | 27-28 |
| **Todd-Cooke Field** | | | | | | | | | |
| J. C. Cooke et al (now The Texas Co.'s) J. S. Tood 1 | 2672 | 1038 | .... | 1695-1705 | 2102 | 4-24-26 | 1 mil. ft. gas shut in | | |
| **Donnelly-Shannon Field** | | | | | | | | | |
| W. W. Donnelly et al's J. M. Shannon 1 | 2486 | .... | .... | 1664-1680 | 1680 | 10-16-27 | 10 Mil. gas shut in | | |
| **ECTOR COUNTY** | | | | | | | | | |
| J. S. Cosden et al (now Cosden & Texas Co.'s) W. E. Connell 1-A | 2847 | 875 | 3170 | 3465-82 | 4002 | 12-28-26 | 40 | 8 | 35-36 |
| **FISHER COUNTY** | | | | | | | | | |
| **Royston Field** | | | | | | | | | |
| The Texas Co.'s Dan W. Stephens 1-A | 1937 | .... | 3190 | 3238-3275 | 3275 | 1-17-28 | 280 | 150 | 38-39 |
| **GARZA COUNTY** | | | | | | | | | |
| B. V. Blackwell et al (now Emerald Oil Co.'s J. M. Boren 1) | 2354 | .... | 1665 | 2450-2516 | 2600 | 5- -26 | 5 | 3 | 37-38 |
| **GLASSCOCK COUNTY** | | | | | | | | | |
| Marland & Group No. 1 Oil Corp.'s W. R. Settles 1 | 2646 | .... | 2030 | 1235-1298 | 3504 | 3- 8-27 | 200 | 200 | 32-33 |
| **HOWARD COUNTY** | | | | | | | | | |
| **Chalk Field** | | | | | | | | | |
| Owen-Sloan et al (now Magnolia Pet. Co.'s) Otis Chalk 1-A | 2430 | .... | .... | 1578-83 | 1586 | 4-18-26 | 70 | 25 | 31-32 |
| **Clay-Hyer Field** | | | | | | | | | |
| Fred Hyer et al (now Marland Prod. Co.'s) H. R. Clay 1 | 2630 | .... | .... | 1542-62<br>1780-94 | 1794 | 11-21-25 | 50 | 120 | 31-32 |
| **Lockhart-Scott Field** | | | | | | | | | |
| Lockhart & Co.'s W. T. Scott 1 | 2359 | .... | .... | 2740-2820 | 3220 | 12-27-26 | 20 | 3 | 29-31 |
| **Magnolia-Roberts Field** | | | | | | | | | |
| Magnolia Pet. Co.'s Dora Roberts 1 | 2662 | .... | .... | 2956-68 | 2990 | 10-24-27 | 3300 shut in | | 27-29 |
| **O'Daniel Field** | | | | | | | | | |
| Choate-Henshaw et al (now Magnolia Pet. Co.'s) M. H. O'Daniel 1 | 2232 | .... | 1670 | 2640-2705 | 3103 | 5-12-26 | 65 | 10 | 29-30 |
| **Harding Field** | | | | | | | | | |
| Marland & Group No. 1 Oil Corp.'s J. B. Harding 1 | 2502 | 1146 | 3115 | 3173-88 | 3230 | 5- 5-27 | 140 | 15 | 28-29 |

(*Continued on page* 100)




# "Union Wire Lines Deliver Real Service"

The men who *use* wire drilling, pumping and bailing lines are the *qualified* judges of their merit. Experienced drillers and lease foremen throughout the oil districts pronounce Union Wire Lines ideally adapted for oil field service.

"The most dependable lines we have used. Flexible, yet not soft. Deliver *real* service," was what the men shown above said about Union Lines. These men are George Reddick, C. C. Dougherty, and Carl Hull, and the well is Sinclair Oil & Gas Company's Hollins No. 5.

Union Wire Lines are built *by oil men* for *oil industry* use. Our executive officers reside at Tulsa, and our factory at Kansas City performs the complete manufacturing operation from drawing and tempering the wire to fabricating the finished rope. Our engineers have made exhaustive oil field investigations and understand the requirements in lines for oil field service.

## UNION WIRE ROPE CORPORATION

3 North Madison Ave., Tulsa, Okla.

JARECKI MFG. COMPANY, Oil Country Distributors, Stocks at all stores

Oil Country Sales Office:
820 Kennedy Bldg.,
Tulsa

Factory:
21st and Manchester
Kansas City, Mo.

Branch Offices and Warehouse:
Portland, Ore.

(*Continued from page* 98)

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **JONES COUNTY** | | | | | | | | | |
| **Noodle Creek Field** | | | | | | | | | |
| Phillips Pet. Co.'s Joe Winters 1 | 1908 | .... | 2493 | 2518-27 | 2527 | 9- 5-26 | 1000 | 75 | 39-40 |
| **Smith Field** | | | | | | | | | |
| Hutson-Weaver-Shaheen's A. T. Smith 1-A | 1824 | .... | .... | 2498-2533 | 2533 | 1-20-28 | 75 | 50 | |
| **Tiner Field** | | | | | | | | | |
| Hucony Gas Co. & Atkinson-Sandifer's J. W. Tiner 1 | 1853 | .... | .... | 2526-2532 | 2532 | 5-23-28 | 760 | 550 | 39-41 |
| **Higgs Field** | | | | | | | | | |
| Stebbins O. & G. Co. (now Roeser-Pendleton & Stebbins') J. M. Higgs 1 | 1624 | .... | .... | 1599-1611 | 1615 | 4-22-27 | 25 | 15 | 39-40 |
| **LOVING COUNTY** | | | | | | | | | |
| P. V. Petroleum Co. (now Lockhart & Co.'s J. J. Wheat 1 | 2645 | 772 | .... | 4212-72 | 4272 | 9- 1-25 | 25 | 35 | 38-40 |
| **MITCHELL COUNTY** | | | | | | | | | |
| **Westbrook Field** | | | | | | | | | |
| Underwriters Prod. & Ref. Co. (now The California Co.'s) T&P-Abrams 1 | 2122 | .... | 1540 | 2350-2498 2980-3020 | 3050 | Oct. 1920 | 25 | 17 | 24-26 |
| **Iatan Field** | | | | | | | | | |
| Magnolia Pet. Co.'s Mary Foster 1 | 2342 | .... | 1750 | 2858-72 | 2872 | 8-18-25 | 150 | 20 | 29-31 |
| **PECOS COUNTY** | | | | | | | | | |
| **Yates Field** | | | | | | | | | |
| Mid-Kansas & Transcontinental Oil Co.'s I. G. Yates 1 | 2396 | .... | 965 | 995-1032 | 1032 | 10-30-26 | 2000 | 315 | 28-29 |
| **Kimberlin Field** | | | | | | | | | |
| Kimberlin & Texon (now Texon Oil & Land Co.'s I. G. Yates 1 | 2250 | 460 | .... | 1268-73 | 1300 | 2- 8-27 | 15 | 10 | 28-29 |
| **REAGAN COUNTY** | | | | | | | | | |
| **Big Lake Field** | | | | | | | | | |
| Texon Oil & Land Co. (now Big Lake Oil Co. & Texon's) University 1 | 2724 | ..... | 2935 | 3020-28 | 3028 | 5-28-23 | 80 | 12 | 37-39 |
| **Skelly-University Field** | | | | | | | | | |
| Skelly Oil Co. & Utah Southern's University 1 | 2874 2895 | 1340 | 3065 3090 | 3136-54 | 3157 | 2- 6-28 | 40 | 35 | 32-33 |
| **RUNNELS COUNTY** | | | | | | | | | |
| **Mud Creek Field** | | | | | | | | | |
| Ladd-Hill-Sillix et al (now Vacuum Oil Co. & Hill-Ladd et al's) R. M. McMillan 1 | 1726 | .... | .... | 2535-40 | 2540 | 8-30-27 | 200 | 55 | 43-45 |
| **King Field** | | | | | | | | | |
| Robt. Watchorn et al's J. L. King 1 | 1660 | .... | .... | 3475-85 | 3732 | 5-28-28 | 3 Mil. gas shut in. | | |
| **SCURRY COUNTY** | | | | | | | | | |
| The Loutex Corp. (Now The Northwest Co.'s) J. J. Moore 1 | 2314 | .... | 1580 | 1765-1820 | 3576 | 11-29-23 | 50 | 6 | 28-29 |
| **STERLING COUNTY** | | | | | | | | | |
| H. D. Rummel et al (now J. P. Williams et al's) L. T. Clark 3 | 2337 | .... | .... | 1173-75 | 1175 | 6- -26 | 20 | SD | 31-32 |
| **UPTON COUNTY** | | | | | | | | | |
| **McCamey Field** | | | | | | | | | |
| Johnson-McCamey & Marland (now Republic Prod. Co.'s) M. L. Baker 1 | 2613 | 590 | 2083 | 2161-2200 | 2271 | 9-30-25 | 70 | 5 | 27-30 |
| **Wentz-Shirk Field** | | | | | | | | | |
| Wentz Oil Corp.'s Milton Shirk 1 | 2722 | 695 | 2146 | 2272-2331 | 2331 | 9-30-26 | 250 | 35 | 26-27 |
| **VAL VERDE COUNTY** | | | | | | | | | |
| O. O. Owens et al (now Owens & Atlantic Oil Prod. Co.'s) H. Y. J. Mills 1 | 2130 | .... | .... | 2491,2520 | 2520 | 6-20-27 | 3 Mil. gas shut in. | | |
| **WINKLER COUNTY** | | | | | | | | | |
| **Hendrick Field** | | | | | | | | | |
| R. A. Westbrook & Co. (now Southern Crude Oil Pur. Co.'s) T. G. Hendrick 1 | 2806 | 1930 | 2604 | 2965-3011 | 3049 | 11- 8-26 | 400 | 145 | 28-30 |
| **Llano Field** | | | | | | | | | |
| Llano Oil Co. (now Roxana Pet. Corp. & Llano's) W. F. Scarborough 1 | 2943 | 1115 | 2953 | 2992-3347 | 3447 | 7-22-27 | 40 | SD | 38- |
| **Leck-Daugherty Field** | | | | | | | | | |
| Gibson-Johnson-Kessler-Logan (now Atlantic Oil Prod. Co. & Kessler-Logan's) Leck-Daugherty 1 | 2883 | 1980 | 2687 | 3159-64 | 3167 | 5- 9-28 | 4000 | 950 | 28-29 |
| **Bolin-Brown Field** | | | | | | | | | |
| V. T. Bolin & Co. et al's Brown-Allsman 1 | 2847-1302 | .... | | 2745-2814 | 3211 | testing | | | 33-34 |

# Dozen New Prospective Fields Found in West Texas

(*Continued from page* 94)

Atkinson & Sanderfer's J. W. Tiner 1 with a natural flow of 760 barrels daily. These two areas may be connected later, but are separated from the Noodle Creek field by a barrier of dry holes. Mid-Continent gravity scale prices also apply in this area, with Humble Oil & Refining Company buying all oil produced in the county.

Runnels County made its appearance on West Texas production tables in August, 1927, with a 200-barrel 44-gravity oil pumper from 2500 foot sand, and a second producer has since been added, but only a small producing area is expected. A deep gasser was also completed in this county on a wildcat drilling block of Robt. Watchorn et al after missing the above oil pay level. W. W. Donnelly et al opened a shallow gas producing area in Crockett County on the Shannon ranch, making two shallow gas pools in this county.

The "lime high" extending across Crane, Upton and Crockett Counties in a direct course to the Yates field, Pecos County, until recently was rated high as a prospective oil area, especially between the McCamey and Yates field. However, a heavy toll of wildcat failures drilled within the past 12 months has about exploded this theory, and little encouragement was had in the way of oil and gas showings. Favorable showings encountered at shallow horizons in a group of tests drilled near the intersection of Ward, Crane and Pecos Counties, and on both sides of the Pecos River aroused lease and royalty plays to a high level within the past 12 months, but flowing sulphur water wells was the outcome of all wildcats drilled, with one test remaining on the active list. Favorable showings of oil encountered in two wildcats drilled below the Hendrick field in Southern Winkler County also gave promise of a producing area being in prospect, but if a field exists it must lie further west, and Gulf controls the prospective acreage. Gulf started to drill on this leasehold, which is known as the O'Brien block, late last summer, but cancelled the location because of having an excess production in the Hendrick field.

### Irion County

Irion County threatened to score a wildcat producer in February when P. E. Hill et al's H. Horney 1 offered prospects of a small pumper at 1270 feet, but water troubles developed, and

# DARLING GATE VALVES
## Mean Genuine Economy

From well-drilling to oil-refining, where continuous and unfailing service is a vital necessity, Darling Gate Valves will effect genuine economy.

Darling Gate Valves, being of the double revolving gate disc type, the pull on the disc is from the center. The wedge support covers practically the entire disc surface. The construction **insures** the four most important things the oil operator is looking for in a Gate Valve, i. e., a tight valve, a long wearing valve, ease of operation and a valve readily repaired **in the field.**

There's a Darling Valve for every place and purpose. Diagrams of construction, as well as catalogs, will be gladly sent on request.

**DARLING VALVE & MANUFACTURING CO.**
WILLIAMSPORT, PA.

New York Chicago Oklahoma City Houston

*Mid-Continent Distributors*

Frick-Reid Supply Co. Atlas Supply Co.
International Supply Co. Petroleum Supply Co.

*California Distributor*

Petroleum Equipment Company, Los Angeles

**Pioneers in Pipe Line Welding**

Our Organization is equipped to handle all details of Pipe Line Contracting Work—to do a complete job.

Rush jobs can be handled with efficiency and speed. The Major Oil Companies are our best references.

*Call Us for Your Next Pipe Line Work*

**Kelly - Dempsey & Co.**

***General Pipe Line Contractors***

**TULSA, OKLAHOMA**

**Telephone 4-0912**

a nearby test has also proven non-productive. Skelly Oil Company and Utah-Southern Oil Company furnished Reagan County with its second field in February with a small pumper on University of Texas fee land, located south of the Big Lake field. A second pumper has been added by The California Company, but other drilling has been disappointing.

In the older fields of West Texas, the Yates, Gulf-McElroy and Big Lake areas have a large number of proven undrilled locations that can make a substantial boost in production if desired. The latter two are absolutely controlled, while the Yates field is held in check by proration. The Gulf-McElroy field is owned entirely by Gulf Production Company, and only two rigs are being operated, since this company is producing more West Texas oil than is needed to fill its trunk line and refinery requirements. The undrilled locations in the Big Lake field are controlled by Big Lake Oil Company and the Texon Oil & Land Compand, and development has been slowed down pending higher crude prices, although average Mid-Continent gravity scale prices are being paid for all oil produced in the Big Lake field by Humble Oil & Refining Company on a long time contract. A revision of proration rules in the Yates field effective July 1 caused the drilling of about 60 additional tests in order to place production on each 100-acre unit, but after this campaign is finished little new work can be expected. Yates field is largely controlled by major interests with pipe line investments, and they are inclined to hold this production back with the aid of proration as future crude reserve for their trunk lines, and also to lessen the water hazard.

**Crude Contracts**

(Continued from page 66)

has contracted to handle 20,000 barrels of West Texas crudes, particularly Church and Fields and Hendrich field crudes, on a common carrier basis for Atlantic Refining Company to the latter's export terminals at Atreco, near Beaumont. This contract will remain in effect until Atlantic Oil Producing Company's West Texas trunk line is completed early in 1929. Bristow-Merrick et al, Ardmore, Oklahoma, operators, are reported to have contracted to sell a maximum of 2500 barrels daily of Chalk-Roberts field, Howard County, crude, if produced, to the Big Spring Refining Company, which is erecting a skimming plant at Big Spring.

### Humble Moves for Illinois

Humble Pipe Line Company contracted in November, 1927, to handle a maximum of 20,000 barrels of Yates field crude daily for the Illinois Pipe Line Company on common carried basis to tidewater. Illinois delivers this crude at Humble's Kemper-Ingleside trunk line station at Lytle, but deliveries as yet have not been to the maximum.

Magnolia Pipe Line Company contracted about July 15, 1928, to handle a maximum of 7500 barrels of oil daily from the Church and Fields area until the close of 1929 for the Warner-Quinlan Company of Texas at a flat rate of 52½ cents per barrel loaded on tankers at Beaumont. This oil will be consumed at the Warners, New Jersey, plant of the Warner-Quinlan Company, but maximum deliveries will not start until about September 1, 1928. Warner-Quinlan had about 2,000,000 barrels of stored oil to be handled in connection with this common carrier contract.

### Big Lake Contract

The Big Lake field, Reagan County, which is controlled entirely by the Big Lake and Texon Oil & Land Company, is assured of a market outlet for a maximum of 20,000 barrels daily, or as much of this amount as can be produced, for the life of the field through a contract made November 24, 1924, by the producers with the Reagan County Purchasing Company. The average Mid-Continent crude price for gravities of oil similar to that produced in the Big Lake field is the price to be paid by the Reagon County Purchasing Company for the Big Lake Oil throughout the life of the field. The Reagan County Purchasing Company is controlled by the Marland Oil Company, with the minority interest in the common stock held in equal amounts by Texon Oil & Land Company and Big Lake Oil Company.

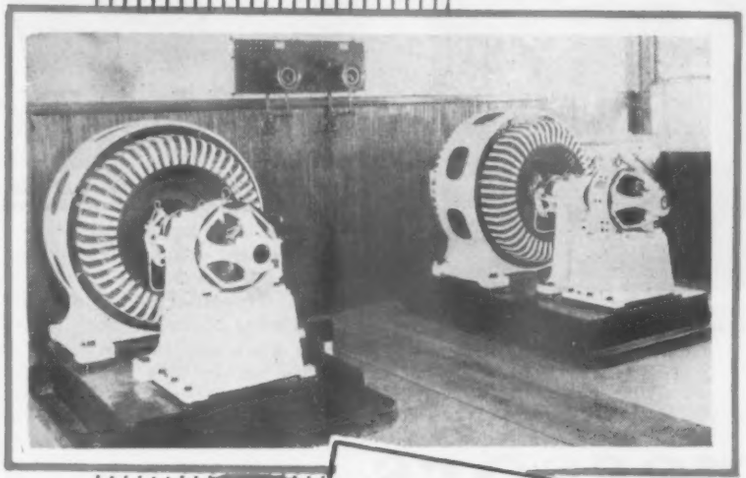
The Reagon County Purchasing Company made contract with Humble Oil & Refining Company whereby the latter is to purchase a maximum of 20,000 barrels of Big Lake crude daily, effective December 15, 1924, until April 1, 1940. The Reagan County Purchasing Company gathers the oil in the field, and delivers it to its large steel tank farm, located near Humble Pipe Line Company's Kemper pump station, Reagan County, and turns the crude over to Humble at the latter point. Humble pays the Reagan County Purchasing Company 20 cents per barrel for gathering and delivering the Big Lake crude to Kemper.

Deliveries on this contract have declined to about 18,000 barrels daily, which is the present output of the field. However, the maximum amount will be available when crude prices justify a resumption of development in the Big Lake field.

## Bull Springs

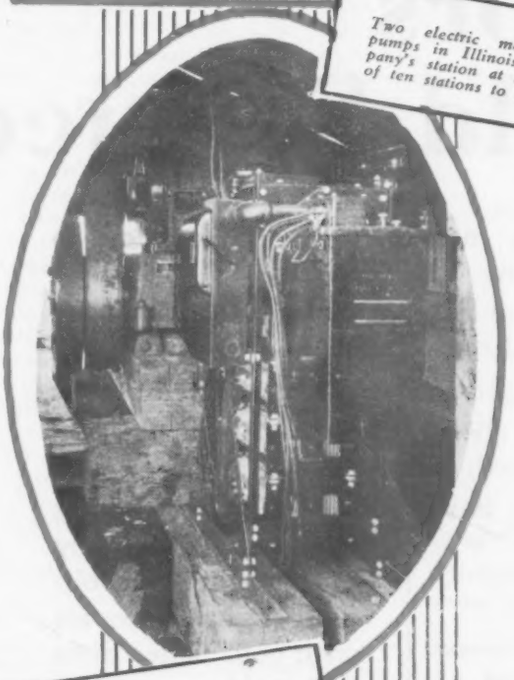
Casper, Wyo. — Lawrence Leuthart and associates have taken over the operation of the Pacific-Eastern Oil Company on Bull Springs structure in Carbon County in the Little Lost Soldier district, and will go about completing the well immediately. The company furnishes the casing in the hole, the camp outfit, etc., and should Leuthart get a well his obligation requires that he pay the company $100,000 out of production.

# POWER



*Two electric motors operate the pumps in Illinois Pipe Line Company's station at Ft. Lancaster—one of ten stations to be electrified.*

## when you need it!



*Electric power pumps the Texas Pacific Coal and Oil Co., wells in the Hurdle Pool, near McCamey.*

No matter how impassable the roads, no matter how hot or how cold the weather—electricity, the "Perfect Servant," is on the job in the oil fields. Every day the oil industry turns more and more to Electricity as a source of Power because—

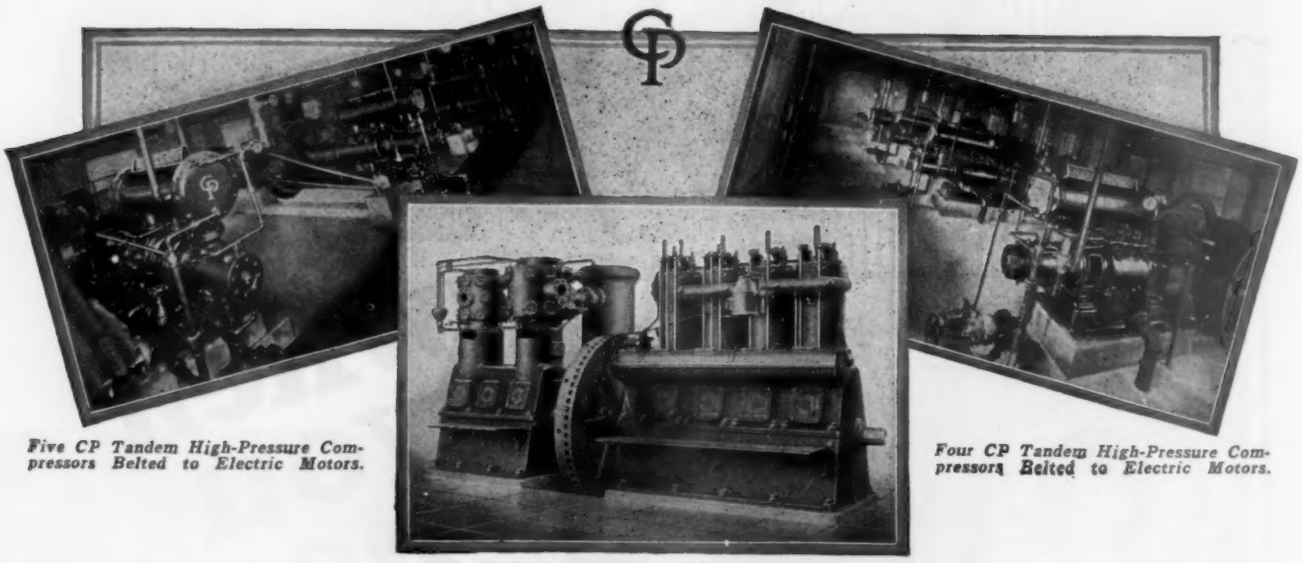
**It is safe—free from fire hazard!**
**It is Dependable, Constant, Flexible!**
**It is clean, convenient, easy to handle!**
**It is economical—you pay for only what you use!**
**It is always there—Ready at the Throw of a Switch!**

In the Yates-Trans-Pecos; in the Jones, Callahan, Eastland, Shackelford and Fisher County fields; the West Texas Utilities Company is equipped to supply every demand for power.

Huge generating stations, with an available capacity of 70,000 horsepower of electric energy, are at your command day and night—ALWAYS IN READINESS TO SERVE. Nearly 2,000 miles of carefully maintained transmission lines, providing two and three-way service, make certain the continuous service so necessary in every oil field job.

*Call or write us for information*

## WEST TEXAS UTILITIES COMPANY
ABILENE, TEXAS



*Five CP Tandem High-Pressure Compressors Belted to Electric Motors.*

*Four CP Tandem High-Pressure Compressors Belted to Electric Motors.*

*CP Duplex two-stage vertical compressor, direct-connected to a CP Gas Engine.*

# CP Compressors for Oil Field Service

THE ingenuity and skill that produce CP compressors, are the result of nearly thirty years of highly specialized experience. In oil fields throughout the world, CP compressors are establishing remarkable performance records, due to the following advantages:

CP units are easily installed — require simple foundation — often mounted on skids including the motor.

Easily moved from one location to another.

Adaptable to battery installations for centralized control.

Arranged for any form of drive.

Every CP compressor is Simplate valve equipped.

If you have wells to flow, or require compressors for any purpose, let our oil-field engineers confer with you. They have had a wide experience in oil-field work.

**CP Oil-Field Equipment:**

Portable Compressors for cleaning or testing wells,
Compressors for flowing wells,
Vacuum Pumps, Condensers and Compressors for refinery service,
Gas Compressors for pressure boosting,
Diesel Engines, 80 to 450 h.p.,
Gas Engines, 90 to 270 h.p.,
Riveting, Chipping and Calking Hammers, Drills, Reamers, Grinders, Nut Runners and Scalers for tank farm construction and maintenance.

C-260

## Chicago Pneumatic Tool Co.

6 East 44th Street, NEW YORK, N. Y.

*Sales and Service Branches all over the World*

Whealton & Townsend, Inc., *Authorized Distributors*

Higgins Bldg., Los Angeles
1502 Magnolia Building, Dallas
120 East Brady St., Tulsa
1415 Fannin St., Houston

*Say you saw it in The OIL WEEKLY*

# Most West Texas Wildcat Failures During Recent Months

## Initial success of earlier explorations has lead to many unsuccessful ventures; more than 200 fail in last year

By H. H. KING
*Staff Representative*

SAN ANGELO, Texas—Undauted by the large volume of production shut in for lack of marketing facilities and for conservation, the wildcatters in the West Texas district completed more than 200 of the 243 dry holes drilled within the district during the past 12 months. These figures compare with a total of 674 completed oil wells during the same period, while most of the latter were confined to Winkler, Pecos, Howard and Crane Counties. Independent operators and companies did the bulk of this wildcat exploration work, with the aid of "protection acreage" sales to major companies and the larger independent units in most instances.

Drilling activity in the West Texas district within the past 12 months was about equal to the previous year, at 621 failures and 681 producing oil wells were added during the year ending July, 1927, making a decline of 13 producers and 18 dry holes for the 12 months period just ended.

Major companies shared in the drilling of only about 40 of the 243 failures completed during the past year, although these figures do not include the tests that majors spent large sums against for nearby lease and royalty protcetion. Roxana Petroleum Corporation was identified with the drilling of six of the failures, while the California Company, Humble Oil & Refining Company and Magnolia Petroleum Company participated in five each. Gulf Production Company and The Texas Company drilled three each, and Sinclair Oil & Gas Company, a new entrant into West Texas, participated in two in King County and one each in Jones and Fisher Counties.

Drilling expense involved in completing the dry holes in the district during the past 12 months is estimated at about $7,000,000, while actual investment for leases and royalties, trading and geological work conducted around these failures swells the total cost to a huge figure.

Twelve separate wildcat oil and gas strikes were made in the district in contrast to the dry hole toll during the past year, but only two of these areas offer immediate prospects of leading to important oil fields.

Fee land owned by the University of Texas had 16 wildcat failures during the past year in comparison to one successful wildcat completion, and the latter was by Skelly Oil Company and Utah-Southern Oil Company in southern part of Reagan County, with an initial production of 40 barrels on the pump. Drilling requirements of University fee land forced the drilling of most of these tests to defeat expiration dates on permits, and nine other tests are now under way, or shut down in water-bearing formation.

Marland Production Company set the pace again during the past year on wildcat activity in West Texas, and completed 11 failures on undivided blocks, and participated in the drilling of 18 other wildcat failures, although most of the latter were "free rides" for acreage donations. Marland has participated in the drilling of four wildcat discovery wells in West Texas, including the McCamey field opener.

Pecos County proved to be the most popular wildcat grounds in the district during the past year, largely because of the supposition that another Yates field should exist in this third largest county in the State. It has an area of 4134

(Continued on page 160)

### SUMMARY WEST TEXAS WILDCAT FAILURES

Recapitulation of dry holes completed in the West Texas district during the past 12 months is given below by counties, with the number of failures segregated according to depths:

| County— | Under 1000 Feet | Bet'n & 2000 Feet | Bet'n & 3000 Feet | Bet'n & 3500 Feet | Bet'n & 4000 Feet | Bet'n & 4500 Feet | Bet'n & 5000 Feet | Below 5000 Feet | Totals |
|---|---|---|---|---|---|---|---|---|---|
| Andrews | .. | .. | .. | 1 | .. | 2 | .. | 1 | 4 |
| Borden | .. | .. | .. | .. | 2 | .. | .. | .. | 2 |
| Brewster | .. | .. | 1 | 1 | .. | .. | .. | .. | 2 |
| Coke | .. | .. | .. | .. | 3 | .. | .. | .. | 3 |
| Concho | 1 | 4 | 2 | .. | .. | .. | .. | .. | 7 |
| Crane | .. | 1 | 2 | 3 | 1 | 1 | .. | .. | 8 |
| Crockett | .. | 10 | 11 | 3 | .. | 2 | .. | .. | 26 |
| Culberson | 1 | 2 | .. | .. | .. | .. | .. | .. | 3 |
| Jeff Davis | .. | .. | .. | .. | .. | .. | .. | 1 | 1 |
| Dawson | .. | .. | .. | .. | .. | 1 | .. | .. | 1 |
| Ector | .. | .. | 1 | .. | 1 | 1 | .. | .. | 3 |
| Fisher | .. | .. | .. | 1 | 4 | .. | .. | .. | 5 |
| Gaines | .. | .. | .. | .. | .. | .. | .. | 1 | 1 |
| Garza | .. | .. | 1 | .. | 1 | .. | .. | 1 | 3 |
| Glasscock | .. | 1 | 2 | .. | 3 | .. | .. | .. | 6 |
| Tom Green | 3 | 1 | .. | 2 | 1 | .. | .. | .. | 7 |
| Howard | .. | 2 | .. | 5 | 6 | 1 | .. | .. | 14 |
| Irion | .. | 3 | .. | .. | .. | .. | .. | .. | 3 |
| Jones | 1 | .. | 7 | 4 | .. | .. | 1 | .. | 13 |
| Kent | .. | .. | .. | .. | 1 | .. | 1 | .. | 2 |
| King | .. | .. | .. | 1 | 5 | .. | .. | .. | 6 |
| Loving | .. | .. | .. | .. | .. | 1 | 1 | 1 | 3 |
| Menard | 2 | .. | .. | .. | .. | .. | .. | .. | 2 |
| Midland | .. | .. | .. | .. | .. | 1 | .. | .. | 1 |
| Mitchell | .. | 1 | 1 | 2 | .. | 2 | .. | .. | 6 |
| Nolan | .. | .. | .. | 2 | 2 | .. | .. | .. | 4 |
| Pecos | 1 | 15 | 18 | 3 | 4 | 1 | 1 | .. | 43 |
| Presidio | .. | .. | .. | .. | 1 | .. | .. | .. | 1 |
| Reagan | .. | .. | 3 | 6 | .. | .. | .. | .. | 9 |
| Reeves | .. | .. | .. | 1 | 2 | 1 | 1 | .. | 5 |
| Runnels | .. | .. | 3 | 4 | 1 | .. | .. | .. | 8 |
| Schleicher | 1 | .. | .. | .. | 1 | .. | .. | .. | 2 |
| Sterling | .. | 1 | .. | .. | .. | .. | .. | .. | 1 |
| Stonewall | .. | .. | .. | 2 | .. | .. | .. | .. | 2 |
| Sutton | .. | 1 | .. | .. | .. | .. | .. | .. | 1 |
| Taylor | .. | .. | 1 | 5 | 1 | .. | .. | .. | 7 |
| Terrell | .. | .. | .. | .. | 1 | 1 | .. | .. | 2 |
| Terry | .. | .. | .. | .. | .. | 1 | .. | .. | 1 |
| Upton | .. | .. | 5 | 1 | 4 | .. | .. | .. | 10 |
| Val Verde | .. | .. | 1 | .. | 1 | 1 | .. | 1 | 4 |
| Ward | 1 | .. | 1 | .. | 2 | .. | .. | .. | 4 |
| Winkler | .. | .. | .. | 1 | 4 | 1 | 1 | .. | 7 |
| Totals | 11 | 42 | 60 | 48 | 52 | 18 | 6 | 6 | 243 |
| Totals previous 12 months | 4 | 27 | 69 | 74 | 57 | 21 | 6 | 3 | 261 |

# THE WORLD'S FAIR of the Oil & Gas Industry

Exposicion Universal de la Industria de Petroleo y de Gas.

Weltausstellung der Petroleum-und der Gas-Industrie.

Engineers, inventors, manufacturers and scientists the world over are constantly developing new and better methods and equipment for the Petroleum Industry. The Industry progresses—and rapidly.

There is just ONE place where users and inventors, buyers and sellers of these new methods and machines can meet. That place is the International Petroleum Exposition—The World's Fair of the Oil and Gas Industry.

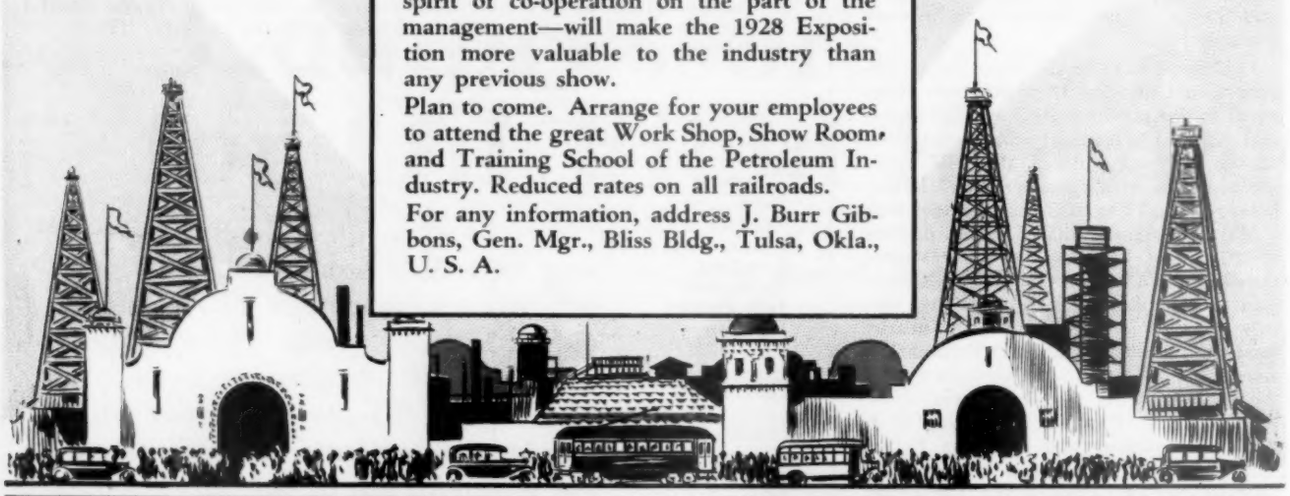
A larger exposition plant—more extensive exhibits—better transportation and other facilities—fewer distractions—and the same spirit of co-operation on the part of the management—will make the 1928 Exposition more valuable to the industry than any previous show.

Plan to come. Arrange for your employees to attend the great Work Shop, Show Room and Training School of the Petroleum Industry. Reduced rates on all railroads.

For any information, address J. Burr Gibbons, Gen. Mgr., Bliss Bldg., Tulsa, Okla., U. S. A.

Exposition Universelle de L' Industrie de Petrole et de Gaz.

Expositione Universale dell' Industria de Petrolio e de Gas.



# INTERNATIONAL PETROLEUM EXPOSITION

TULSA OKLA. U.S.A. - OCT. 20-29-1928

# West Texas Dry Hole Record for Past Twelve Months

## ANDREWS COUNTY

| Company and Dry Hole Location— | Surface Elevation | Top Salt | Top Lime | Total Depth | Date Completed |
|---|---|---|---|---|---|
| Geo. B. Calvin-Geo. Belt et al's Ratliff-Bedford 1, c ne¼, sec 16, blk A-54, P.S.L. sur | 3194 | 1610 | .... | 4007 | 12-28-27 |
| Amon Carter & Henry Zweifel's Cowden 1, c se¼, sec 18, blk A-52, P.S.L. sur | 3156 | 1375 | 4150 4212 | 5000 | 1- 6-28 |
| J. S. Cosden & Co. et al's Ratliff-Bedford 1, c se¼, sec 8 blk 73, P.S.L. sur | 3176 | 1585 | .... | 4116 | 11-26-27 |
| C. B. McKennon et al's J. S. Means 1, c se¼ sec 12, blk A-35, P.S.L. sur | 3161 | 1930 | .... | 3376 | 2-20-28 |
| | 3144 | | | | |

## BORDEN COUNTY

| Company and Dry Hole Location— | Surface Elevation | Top Salt | Top Lime | Total Depth | Date Completed |
|---|---|---|---|---|---|
| Dixon Creek Oil Co.'s Clayton-Johnson 1, c of s line sec 2, blk 31, T&P Ry sur, T-5-N | 2663 2606 | 1250 | 2940 | 3552 | 5- 9-28 |
| Marland Prod. Co.'s J. C. & G. E. McDavid 1, c sw¼ sec 156, H&TC Ry sur, blk 25 | 2310 | 870 1280 | 2410 | 3515 | 5- 7-28 |

## BREWSTER COUNTY

| Company and Dry Hole Location— | Surface Elevation | Top Salt | Top Lime | Total Depth | Date Completed |
|---|---|---|---|---|---|
| Mid-Kansas O. & G. Co.'s Turney 1, 4570 ft from s and 780 ft from e lines sec 77, blk 213 T.&S.L.Ry sur | 3820 | .... | .... | 3480 3500 | 3-22-28 |
| Wilcox & Anderson's Gage 1, 1500 ft from n and 190 ft from e lines sec 8, blk 300, TC Ry Co sur | 4320 | .... | .... | 2100 | 5-16-28 |

## COKE COUNTY

| Company and Dry Hole Location— | Surface Elevation | Top Salt | Top Lime | Total Depth | Date Completed |
|---|---|---|---|---|---|
| W. H. Brown et al's W. L. Foster 1, 150 ft from se cor sec 149, H&TC Ry sur, blk 2 | 2232 | .... | .... | 3840 | 3-28-28 |
| Danciger O. & R. Co. et al's B. Byrens 1, 330 ft n and w of c of W. H. Clinton sur No. 2 | 2095 | .... | .... | 3506 | 1-18-28 |
| Lipan Oil Co. & Stearns & Sreeter's S. M. Conner 1, 1320 ft e of ne c sec 71, but on n l of C. D. Martin sur | 2036 2045 | .... | .... | 3505 | 6-30-28 |

## CONCHO COUNTY

| Company and Dry Hole Location— | Surface Elevation | Top Salt | Top Lime | Total Depth | Date Completed |
|---|---|---|---|---|---|
| Associated Pet. Co.'s Sam Waring 1, 330 ft from sw cor Jacob Gotthardt sur No. 2035 | 2085 | .... | .... | 2300 | 4- -27 |
| Associated Pet. Co.'s Sam Waring 1A-, 500 ft e of No. 1 | 2085 | .... | .... | 2617 | 8-23-27 |
| J. E. Beall et al's Schultz-Sansom 1, 1980 ft from nw cor sec 93, blk 71, H&GN Ry sur | .... | .... | .... | 1506 | 7-11-28 |
| C. R. Dutton & Hughes' W. O. Schultz 1, 1500 ft from se cor nw¼ sec 127, blk 72, T&NO Ry sur | .... | .... | .... | 1500 | 3-28-28 |
| The Exploration Co.'s Wilson-Hartgrove 1, 1000 ft s of nw cor and 660 ft from w line J. Scheuch sur No. 240 | 1618 | .... | .... | 1670 | 9- -27 |
| Wilson Hartgrove 1-A, 25 ft n of No. 1 | 1618 | .... | .... | 940 | 6- -28 |
| Parks & Lawson et al's W. O. Schultz 1660 ft from ne cor sec 4, E.L.&RR Co. sur | 1734 | .... | .... | 1510 | 12-10-27 |

## CRANE COUNTY

| Company and Dry Hole Location— | Surface Elevation | Top Salt | Top Lime | Total Depth | Date Completed |
|---|---|---|---|---|---|
| Crane County Dev. Co.'s Mosley-Brookfield Investment Co. fee 1, 330 ft from se and sw lines sec 18, blk 6, H&TC Ry sur | 2325 | 819 | 2072 | 3280 | 3-20-28 |
| C. C. Duffey & Gault Brown's Cowden 1, 1650 ft from n and 320 ft from e lines sec 22, blk X, CCSDRGNG sur | 2537 | 895 | 2729 | 3422 | 12-10-27 |
| Great Basin Oil Co.'s M. T. Eudaley 1, 2800 ft from ne and 1180 ft from se lines sec 36, blk 4, H&TC sur | 2418 | 610 | .... 3033 | 1696 | 4-27-28 |
| Gulf Prod. Co.'s W. N. Waddell 3, 330 ft from se cor ne¼ sec 3, blk B-25, P.S.L. sur | 2724 | 1165 | 3055 | 3518 | 3- 8-28 |
| Humble O. & R. Co.'s University 1-B, 330 ft from se cor e½ nw¼ sec 35, blk 30 | 2619 | 1220 525 | 3023 | 3180 | 2- 7-28 |
| Lockhart & Co. et al's M. M. Treanor-Woods 1, nw part sec 28, blk 1, H&TC Ry sur | 2397 | 535 | 2106 | 2149 | 4- 7-28 |
| Marland Prod. Co.'s Cordova Union Fee 1, 330 ft from se and ne lines of w¼ sec 28, blk 35, H&TC Ry sur | 2298 | 825 | 2010 | 2261 | 10-20-27 |
| Texas Development Co.'s Cowden 1, 350 ft from sw cor sec 53, blk "X", CCSDRGNG Ry sur | 2438 2446 | 595 | 2540 | 4295 | 12-17-27 |

## CROCKETT COUNTY

| Company and Dry Hole Location— | Surface Elevation | Top Salt | Top Lime | Total Depth | Date Completed |
|---|---|---|---|---|---|
| Geo. H. Anderson & Marland Prod. Co.'s University 1, c of w line sw¼ sec 2, blk 50 | 2666 | 1185 | 2142 | 2631 | 12-10-27 |
| Geo. H. Anderson & P. H. Williams' University 1, 2310 ft from se cor sec 19, blk 47 | 2610 | 990 | 2000 | 2510 | 6-29-28 |
| V. T. Bolin & Co. et al's P. C. Coates 1, 330 ft from nw cor sw¼ sec 4, blk 2, I&GN Ry sur | 2022 | .... | .... | 2100 | 3- -28 |
| J. A. Corbett & R. H. Gill's University 1, c ne¼ sec 17, blk 29 | 2437 | 855 | 1796 | 2502 | 2-21-28 |
| J. S. Cosden & Co.'s Paul Perner 1, 330 ft from sw cor sec 36, blk 2, I&GN Ry sur | 2530 | .... | 1580 | 2575 | 4-16-28 |
| R. B. Coyle et al's H. M. Halff 1, c lot 18, sec 70, blk 1, I&GN Ry sur | 2238 | .... | 1360 | 1382 | 4-23-28 |
| W. W. Donnelly-J. D. Young & Marland Prod. Co's J. S. Pierce 1, c sw¼ sec 150 blk "O", GH&SA Ry sur | 2105 | .... | .... | 3240 | 10- 8-27 |
| W. W. Donnely & J. D. Young's J. S. Todd 1, 2590 ft from n and 1250 ft from w lines sec 26, blk "WX" GC&SF Ry sur | 2530 | .... | .... | 1726 | 6-25-28 |
| Epenaur et al's W. T. Noelke 1, 330 ft from w and 660 ft from s lines sec 30, blk "GG" GC&SF Ry sur | 2323 | 475 | .... | 2006 | 11-10-27 |
| Grayburg Oil Co.'s H. M. Halff 8, 660 ft s of n line sec 70, blk 1, I&GN Ry sur | 2180 | 475 | .... | 1215 | 5-26-28 |
| Gulf Prod. Co. & Pure Oil Co.'s G. L. Thompson 1-A, 200 ft s and 4661 ft e of nw cor sec 74, blk 1, I&GN sur | 2227 | 420 | 1715 | 2831 | 6-28-28 |
| Geo. A. Henshaw et al's Noelke-Murphy 1, 660 ft from nw cor sec 10, blk "PP" T. S. Ry Co sur, A-5148 | 2334 | 590 | 1470 | 1605 | 10-10-27 |
| Geo. A. Henshaw & McMan O. & G. Co.'s W. Owens 1, c nw¼ sec 17, blk "GG", GC&SF Ry sur | 2769 | 1140 | 2055 | 4368 | 5-18-28 |
| James Kelly et al's J. S. Todd 1, c ne¼ sec 43, blk "WX" GC&SF Ry sur | 2661 | 993 1050 | .... | 2605 | 12- 1-27 |
| J. F. McMannon-Smith et al's J. B. Blakeney 1, c sw¼ sec 26, blk "Q-3", T.C. Ry sur | 2440 | .... | .... | 4050 | 11-25-27 |
| Newman Oil Co.'s B. C. Clark 1, 1650 ft from n and 2310 ft from w lines sec 1, blk "B", GC&SF Ry sur | 2703 | 640 | 1926 | 2108 | 11-23-27 |
| Pecos Oil Co. and Marland Prod. Co.'s University 1, 200 ft w of center of sec 13, blk 31 | 2435 | .... | .... | 1640 | 6-27-28 |
| R. R. Penn et al's L. P. Powell 1, 1650 ft from n and 2310 ft from w lines sec 54, blk "BB", GC&SF Ry sur | 2759 | 1065 1085 | 2625 | 3001 | 1- 2-28 |
| Wm. Schaffer et al's University 2, 1350 ft from s and 2610 ft from w lines sec 9, blk 47 | 2638 2666 | 1060 | 2088 | 2635 | 10- 8-27 |
| Taylor-Link Oil Co.'s L. P. Peck 1, 330 ft se of nw lines and 330 ft sw of ne lines sec 37, blk 31, H&TC Ry sur | 2379 | 368 | 1680 | 1735 | 7- 2-28 |
| Tidal Oil Co.'s University 1, 330 ft from se cor sw¼ sec 8, blk 50 | 2711 | 1220 | 2185 | 2566 | 7- 5-28 |
| U. S. Bureau of Mines' Harris Bros. 1, (Potash Test) nw¼ sec 16, GC&SF Ry sur | .... | .... | .... | 1797 | 12- 2-27 |
| P. R. Whonlich & Co.'s H. M. Halff 1, 150 ft n and 200 fe e of sw cor sec 69, blk 1, I&GN Ry sur | 2146 | .... | .... | 1200 | 5-18-28 |
| World Oil Co.'s Schneeman 1-B, 330 ft from se cor nw¼ sec 50, blk "B", GC&SF Ry co sur | 2663 | 1060 | 2510 | 3206 | 5-24-26 |
| M. B. Wyrick et al's H. M. Halff 1, 1322 ft e and 150 ft s of nw cor sec 68, blk 1, I&GN Ry sur | 2212 | 585 | 1335 | 1400 | 4-24-28 |
| F. P. Zoch & Marland Prod. Co.'s University 1, 330 ft from sw cor sec 16, blk 14 | 2404 | 515 | 1515 | 1635 | 5-22-28 |

## CULBERSON COUNTY

| Company and Dry Hole Location— | Surface Elevation | Top Salt | Top Lime | Total Depth | Date Completed |
|---|---|---|---|---|---|
| Deep Rock Oil Co. et al's Kloh-Rumsey 2, 1650 ft from s and 660 ft from e lines sec 21, blk 59, T&P sur T-7 | 3717 | .... | .... | 1738 | 4-18-28 |
| J. P. Seay 1, 150 ft from nw cor sec 20, blk 59, T&P Ry Co. sur, Tsp 7 | 3626 | .... | .... | 1704 | 3- 5-28 |
| Jas H. Gardner & Sun Oil Co.'s Radford et al 1, c se¼ sec 29, blk 62, P.S.L. sur | 5250 | .... | .... | 635 | 2- -28 |

## JEFF DAVIS COUNTY

| Company and Dry Hole Location— | Surface Elevation | Top Salt | Top Lime | Total Depth | Date Completed |
|---|---|---|---|---|---|
| Humble O. & R. Co.'s Flores 2, 1130 ft from s and 850 ft from w lines sec 34, blk 58, T&P Ry sur, Tsp 8 | 4239 | .... | .... | 5250 | 6-26-28 |

## DAWSON COUNTY

| Company and Dry Hole Location— | Surface Elevation | Top Salt | Top Lime | Total Depth | Date Completed |
|---|---|---|---|---|---|
| R. R. Penn et al's Mrs. G. G. Wright 1, c sw¼ sec 16, blk 1, J. Pointevent sur | 2842 2852 | 1750 1796 | 3594 | 4160 | 10-10-27 |

## ECTOR COUNTY

| Company and Dry Hole Location— | Surface Elevation | Top Salt | Top Lime | Total Depth | Date Completed |
|---|---|---|---|---|---|
| The Texas Co. and J. S. Cosden & Co.'s W. E. Connell 5, 330 ft from se cor sec 24, blk B-16, P.S.L. sur | 2843 | 925 950 | 3375 | 4027 | 1- 2-28 |
| W. E. Connell 6, 330 ft from nw cor sec 10, blk B-16, P.S.L. sur | 2876 | 950 | 3233 | 3858 | 6-23-28 |
| U. S. Bureau of Mines' Potash Test No. 4, near Metz | .... | 930 | .... | 2098 | 8-30-27 |

## FISHER COUNTY

| Company and Dry Hole Location— | Surface Elevation | Top Salt | Top Lime | Total Depth | Date Completed |
|---|---|---|---|---|---|
| Hucony Gas Co. & Marland Prod. Co.'s H. Langford 1, 600 ft n and 150 ft e of sw cor sec 7, blk 21, T&P Ry Co sur | 2187 2201 | .... | .... | 3752 | 10-25-27 |
| Ideal Oil Co.'s Jameson 1, 1310 ft from se cor sec 111, blk 1, H&TC Ry sur | 1865 | .... | .... | 3528 | 3-10-28 |
| Marland Prod. Co. & Miley Oil Co.'s W. W. Ammons 1, 2747 ft from e and 1586 ft from s lines sec 198, blk 3, H&TC Ry sur | 2106 | .... | .... | 3800 | 10-26-27 |

(Continued on page 110)

# "Better Be Saf
# Means GUIBE

THE GUIBERSON UNDERREAMER

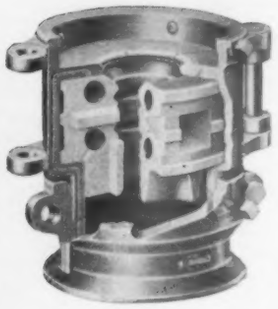
This is "the world's strongest" underreamer, and can be depended upon to do its work and come out whole. Patented.

THE GUIBERSON SWAB

Used for most of the world's swabbing because it is both fast and efficient. Two types, "A" and "B". Fully patented.

THE GUIBERSON DISC BIT

This new bit is the fastest ever designed for soft and semi-hard formations — yet goes through hard rock shells economically. Patented.



THE GUIBERSON TUBING STRIPPER

Is simple, easily and speedily handled. Strips the tubing DRY and provides a tight seal. Patented.

THE GUIBERSON TOOL JOINT TONG

A simple, powerful tong that takes a non-slip grip. Speedily and safely handled by one man. Instantly reversible. Patented.

GUIBERSON Oil Field Specialties are favorably known in every oil country. Outstanding inventive genius, practical experience and manufacturing integrity combine to insure the excellence upon which is based this world-wide acceptance of any appliance bearing the GUIBERSON name.

*"Better Be*

**THE GUIBERSON**

Box 1106,
*California Branch:* 1506

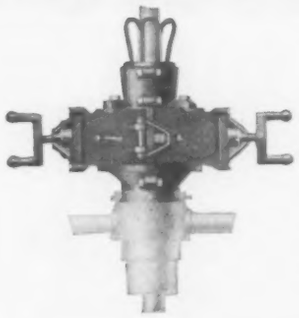
402 W. First St.,
TULSA

321 Osage
PONCA

# GUIBE

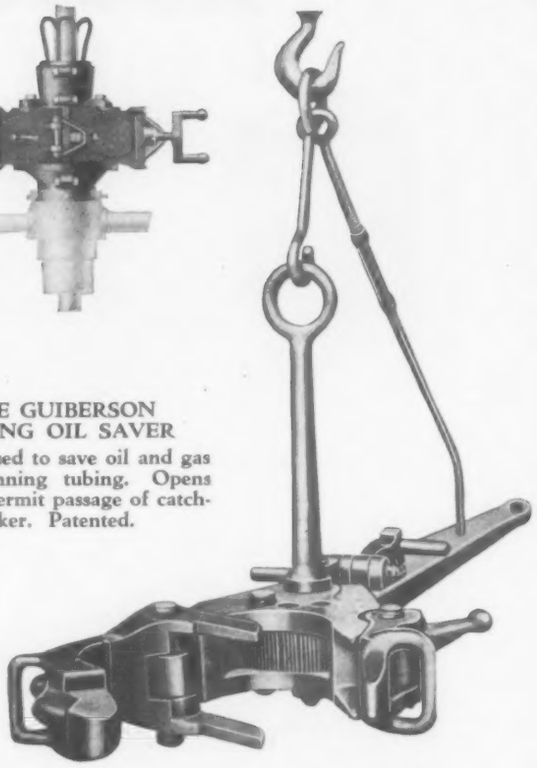
*Say you saw it in The OIL WEEKLY*

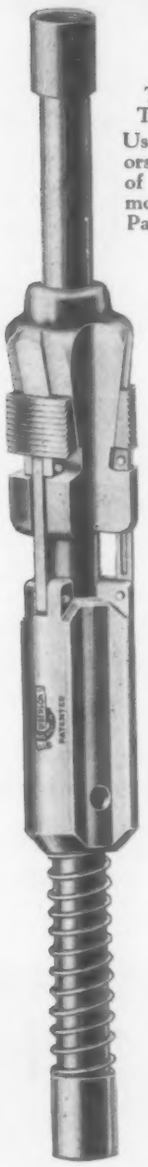
# e Than Sorry"
# RSON TOOLS



THE GUIBERSON
TUBING OIL SAVER

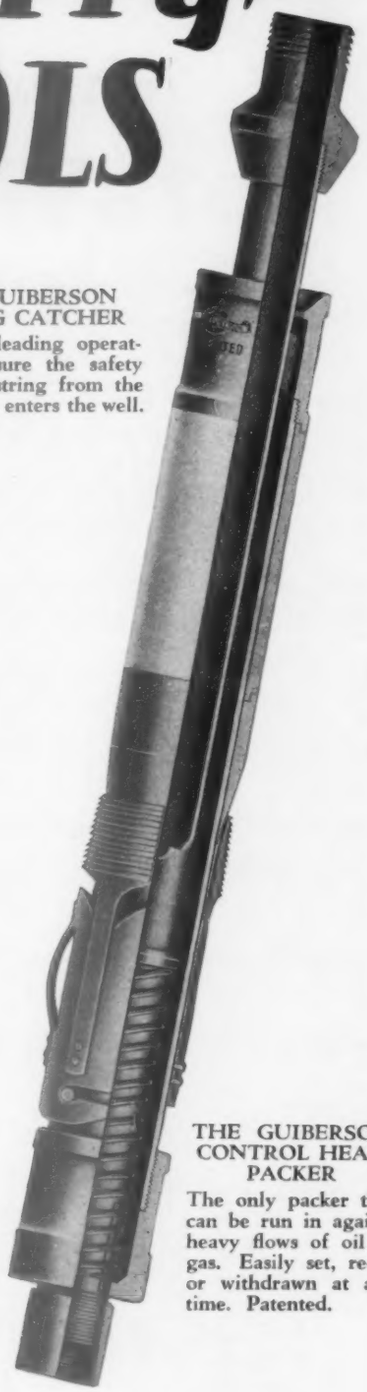
Widely used to save oil and gas while running tubing. Opens wide to permit passage of catcher or packer. Patented.





THE GUIBERSON
TUBING CATCHER

Used by leading operators to insure the safety of every string from the moment it enters the well. Patented.



THE GUIBERSON
CONTROL HEAD
PACKER

The only packer that can be run in against heavy flows of oil or gas. Easily set, re-set or withdrawn at any time. Patented.

GUIBERSON engineers are familiar with oil field methods and have been signally successful at solving many operating problems of the industry. The GUIBERSON plant has every modern facility for fine manufacture. Each GUIBERSON specialty is thoroughly tested in the field before being offered to the public.

*Safe Than Sorry"*

## CORPORATION

Dallas, Texas
Santa Fe Ave., Los Angeles
Street,
CITY

506 Trust Bldg.,
NEWARK, O.

# RSON

# WEST TEXAS DRY HOLE RECORD FOR PAST TWELVE MONTHS

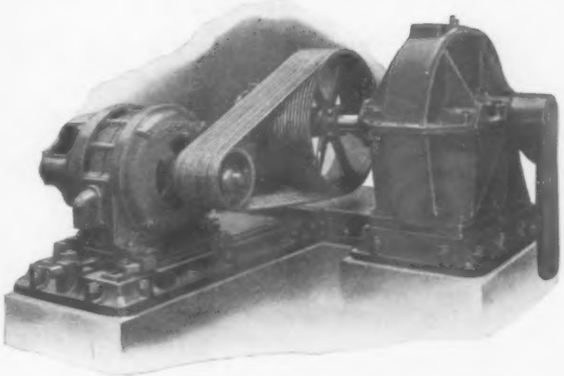
| Company and Dry Hole Location— | Surface Elevation | Top Salt | Top Lime | Total Depth | Date Completed |
|---|---|---|---|---|---|
| Marland Prod. Co. & Vacuum Oil Co.'s J. H. Lagow 1, c se¼ sec 3, blk 22, T&P Ry Co. sur | 2124 | .... | .... | 3852 | 1-18-28 |
| Sinclair O. & G. Co.'s Farmer-Denise 1, 720 ft from n and 2080 ft from w lines sec 6, blk "K" T&P Ry sur | 1865 | .... | .... | 3118 | 10-18-27 |
| **GAINES COUNTY** | | | | | |
| Westheimer & Daube's B. Forbes Land Co. 1, 1000 vrs w of ne cor and 660 vrs s of n line League No. 308, Terrell County School lands | 3143 | 2445 | .... | 5341 | 1- 5-28 |
| **GARZA COUNTY** | | | | | |
| Gulf Prod. Co.'s E. P. Swenson et al 1-A, 330 ft from nw cor sec 67, blk 2, H&GN Ry Co. sur | 2492 | 495 | 2075 | 5085<br>5105 | 3-24-28 |
| Marland Prod. Co.'s B. F. Pippen 1, c nw¼ sec 1210 W. C. Young sur | 2565 | 960 | 2625 | 3582 | 6-15-28 |
| Pandem Oil Corp.'s Justice 1, 2310 ft from s and 330 ft from w lines sec 2, blk 6, H&GN Ry sur | 2262<br>2328 | 585 | 1881<br>1810 | 2765 | 8-26-27 |
| **GLASSCOCK COUNTY** | | | | | |
| The California Co.'s W. B. Currie 1, 2970 ft from s and 990 ft from w lines sec 215, blk 29, W&NW Ry co sur | 2540<br>2694 | .... | 2370 | 2523 | 9-27-27 |
| The California Co.'s W. B. Currie 2, 330 ft from n and 2310 ft from w lines sec 213, blk 29, W&NW Ry sur | 2628 | .... | .... | 1613 | 11-22-27 |
| F. M. Green et al's F. G. Oxshear 1, c se¼ sec 6, blk 34, T&P Ry co sur, T-2-S | 2542 | 1245 | 2852<br>2900 | 3661 | 9-15-27 |
| Landreth Prod. Co.'s A. L. Houston 1, 330 ft from ne cor nw¼ sec 12, blk 35, T&P Ry sur, T-2-S | 2611 | 1410 | 3380<br>3420 | 3885 | 9-12-27 |
| Meriwether Oil Co. et al's L. S. McDowell 1, c sw ¼ sec 43, T&P Ry Co sur, blk 34, T-2-S | 2545 | 995<br>1180 | 2490 | 3910 | 10-20-27 |
| Sid Richardson & Ted Collins' Berge Forbes 1, 150 ft from ne cor sw¼ sec 183, blk 29, W&..W Ry Co sur | 2710 | . .. | 2420 | 2477 | 8- 4-27 |
| **TOM GREEN COUNTY** | | | | | |
| H. D. Camp et al's Wilkey 1, 200 ft from n & 310 ft from w lines sec 4, Blind Asylum Lands | 2095 | .... | .... | 447 | 5- -27 |
| H. D. Camp et al's Wilkey 1-A 190 ft from n and 310 ft from w lines sec 4, Blind Asylum Lands | 2095 | .... | .... | 1003 | 8- 2-27 |
| Marland Prod. Co.'s J. W. Johnson 1, c sw¼ sec 6, R. B. Sanderson sur | 1852 | .... | .... | 3461 | 2- 8-28 |
| Marland Prod. Co.'s J. W. Johnson 1-A, 1320 ft from nw and sw lines sec 537, John Heinrich sur | 1995 | .... | .... | 3417 | 4-26-28 |
| Marland Prod. Co.'s Llano 1, 330 ft from se cor sw¼ sec 11, blk 964, H. L. Fannin Revised sub-div of Llano County School Lands | 2220 | .... | .... | 3505 | 8-19-27 |
| L. N. Nickey-Dullahan et al's Jacobs 1, 660 ft w and 990 ft s of sw cor J. Earnest sur, but in sec 1011, H&TC sur | .... | .... | .... | 380 | 9- -27 |
| World Oil Co.'s M. B. Pulliam 1-B, 990 ft from n and 1650 ft from e lines sec 25, blk 4, H&TC Ry sur | 1823 | .... | .... | 809 | 3-29-28 |
| **HOWARD COUNTY** | | | | | |
| The California Co.'s Fisher 1, 990 ft from w and 2306 ft from n lines sec 36, blk 33, T&P Ry sur, T-1-S | 2623 | .... | 3065 | 3833 | 1-10-28 |
| Dixie Oil Co.'s H. R. Clay 1, 1650 ft from w and 200 ft from n lines sec 154, blk 29, W&NW Ry Co sur | 2603 | .... | 2300 | 3347 | 1- 7-28 |
| W. W. Donnelly et al's Martin 1, 150 ft from se cor sec 41, blk 33, T&P Ry Co sur, T-2-N | 2552 | 960 | 3070 | 3390 | 5-26-28 |
| Lee & Neeley et al's Harry Hyman 1, 330 ft from s and 2310 ft from w lines sec 61, blk 29, W&NW Ry Co sur | 2369 | .... | .... | 1435 | 1-24-28 |
| Magnolia Pet. Co's Harry Hyman 1, 330 ft from sw cor sec 65, blk 29, W&NW Ry Co sur | 2386 | .... | 1945 | 3640 | 6-23-28 |
| Marland Prod. Co.'s A. G. Haynes 1, c se¼ sec 20, blk 32, T&P Ry Co sur, T-1-N | 2576 | 1145 | 2860 | 3443 | 10-17-27 |
| Marland Prod. Co.'s A. Richardson 1, c nw¼ sec 12, blk 32, T&P Ry Co sur, T-1-S | 2359 | 870 | 2415 | 3618 | 2-24-28 |
| Marland & Texon Oil & Land Co.'s Mrs. W. Connelly 1, 330 ft from ne cor sec 15, blk 33, T&P Ry sur, T-1-S | 2577 | 1425 | 3028 | 4412 | 1-22-28 |
| Marland & Texon Oil & Land Co.'s Guitar 1-A, c se¼ sec 14, blk "A", Bauer & Cockrell sur | 2556 | 1215 | .... | 3509 | 10-26-27 |
| Marland & Texon Oil & Land Co.'s Mable Quinn 1, 330 ft from sw cor sec 36, blk 34, T&P Ry Co sur, T-1-S | 2502 | 1190 | 3215 | 3855 | 10- 1-27 |
| Marland Prod. Co. & Texon Oil & Land Co.'s W. R. Settles 3-A, c ne¼ sec 160, blk 29, W&NW Ry Co sur | 2654 | .... | .... | 1458 | 5-11-28 |
| Marland Prod. Co. & F. P. Zoch's A. M. Fisher 1, 990 ft from nw cor sec 1, blk 33, T&P Ry sur, T-2-S | 2740 | .... | 2950 | 3850 | 11- 9-27 |
| Marland Prod. Co. & F. P. Zoch's Chester Jones 1, c sw¼ sec 32, blk 27, T&P Ry Co sur | 2218 | 970 | 2185<br>2250 | 3215 | 2- 1-28 |
| Peer Oil Corp.'s C. D. Reed 1, c nw¼ sec 39, blk 30, T&P Ry sur, T-1-N | 2322 | .... | 2000 | 3420 | 1-17-28 |
| **IRION COUNTY** | | | | | |
| P. E. Hill et al's H. Horney 1, 150 ft from s and 450 ft w of ne cor sw¼ sec 2, blk 3, H&TC Ry sur | 2268 | .... | .... | 1725 | 5- 1-28 |
| L. P. Powell et al's H. Horney 1, 2130 ft n and 1170 ft e of sw cor sec 2, blk 3, H&TC Ry sur | 2265 | .... | .... | 1325 | 7- 1-28 |
| Wittmer Oil & Gas Properties' Abe Mayer 2, 1000 ft s and 2640 ft w of ne cor sec 1127, GC&SF Ry sur | 2066 | .... | .... | 1350 | 6-18-28 |
| **JONES COUNTY** | | | | | |
| E. P. Campbell & White Eagle O&R Co.'s Bud Herndon 1, 1320 ft from s and 660 ft from w lines sec 6, MEP&P sur | 1831 | .... | .... | 3009 | 1-21-28 |
| R. F. Garland & Co.'s E. D. Glynn 1, 330 ft from se cor Sec 18, D. & D. Asylum Lands | 1611<br>1641 | .... | .... | 3145 | 3-27-28 |
| Gibson-Johnson-Cole & Hartt's Joe Dillard 1, 330 ft from nw cor sec 2, blk 17, T&P Ry sur | 1683 | .... | .... | 2306 | 10-18-27 |
| Gibson-Johnson et al's R. J. Camp 1, 509 ft from e and 330 ft from n lines S. M. Hale sur No. 251, A 202 | 1831 | .... | .... | 2208 | 12- 6-27 |
| Gillette & Hickey et al's M. E. Young 1, 1350 ft n and 150 ft w of se cor 396-ac tract, B. Trevino sur | 1602 | .... | .... | 2040 | 8-23-27 |
| Kirk-Brewer et al's J. H. Milsap 1, 150 ft e of c of w line of 356-ac Lse in J. Rodriguez sur No. 357 | 1792 | .... | .... | 3001 | 8-30-27 |
| Manhattan Oil Co.'s S. W. King 1, 7700 ft from n and 1400 ft from w lines Jas. Bartlett sur No. 198 | 1653 | .... | .... | 2399 | 8- 9-27 |
| Phillips Pet. Co.'s Joe Winters 5, 330 ft from nw cor ne¼ sec 19, blk 18, T&P Ry sur | 1854 | .... | .... | 4570 | 7-12-28 |
| Stebbins O&G Co. & Sinclair Co.'s R. R. Scott1, c of s½ of W-325-ac in sec 38, Orphan Asylum Lands | 1688 | .... | .... | 2510 | 11-20-27 |
| W. G. Stough et al's W. C. Bennett 1, 1070 ft from s and 150 ft from w lines se¼ sec 42, Orphan Asylum Lands | .... | .... | .... | 800 | Jan., 1928 |
| Swensondale Oil Co.'s Canton 1, 150 ft from s and 660 ft from w lines sw¼ nw¼ sec 9, D&D Asylum Lands | 1544 | .... | .... | 3398 | 1-23-28 |
| Teas & Wheeler et al's Henry Sayles 1, 808 ft w and 465 ft s of ne cor sec 3, blk 20, T&P Ry sur | 1648 | .... | .... | 2413 | 7- 8-28 |
| J. L. Tomberlin et al's Hendrick-Clapp 1, 150 ft from s and 660 ft from w lines sec 37, blk 16, T&P Ry sur | 1658 | .... | .... | 2509 | 9- 6-27 |
| **KENT COUNTY** | | | | | |
| Douglas Oil Co.'s Scoggins 1, c nw ¼ sec 57, blk 7, H&GN Ry Co sur | 2311 | .... | .... | 4505 | 8-15-27 |
| Marland Prod. Co. & Texon Oil & Land Co.'s N. V. Bilby 1, c sw¼ sec 49, blk "K", J. A. Thompson sur | 2165 | 610 | .... | 3534<br>3580 | 4-20-28 |
| **KING COUNTY** | | | | | |
| The California Co.'s I. H. Spikes 1, 1726 ft from n and 17 ft from w lines sec 24, R. M. Masterson sur | 1719 | .... | .... | 3380 | 9-27-27 |
| Gibson-Johnson & Sinclair O&G Co.'s S. B. Burnett 1, 150 ft from se cor ne¼ ne¼ sec 34, Sam Lazarus sur | 1715 | .... | .... | 3506 | 9-20-27 |
| Mid-West Exploration Co.'s Frank Patton 1, c of n 160-ac of sec 102, blk "A", J. B. Rector sur | 1706 | .... | .... | 3500 | 11- 8-27 |
| J. L. Pattison et al's Frank Patton 1, 900 ft from s and 600 ft from e lines sec 44, blk "A", J. B. Rector sur. | 1616 | .... | .... | 3505 | 1- 7-28 |
| Sinclair Oil & Gas Co.'s S. B. Burnett 1, 150 ft from ne cor nw¼ sw¼ of Wm. E. Elliott sur | 1804 | .... | .... | 3509 | 9-15-27 |
| White Eagle Oil & Ref. Co.'s S. B. Burnett 1, 1320 ft from se cor G. W. Lampson sur | 1818 | .... | .... | 3506 | 10-20-27 |
| **LOVING COUNTY** | | | | | |
| Delaware Oil Co.'s Lockhart-Ramsey 1, 330 ft from e cor w¼ sec 79, blk 1, W&NW Ry sur | 2729 | 780 | 4320 | 4426 | 6- 1-28 |
| Kingwood Oil Co.'s J. O. Moore 1, c ne¼ sec 2, blk C-25, P. S. L. sur | 3120 | 1210 | 5227 | 5365 | 9-26-27 |
| Owen-Sloan et al's Johnson 1, c se¼ sec 20, blk 53, T&P Ry Co sur, Tsp 2 | 2934 | 955 | .... | 4808 | 4- 5-28 |

(Continued on page 112)

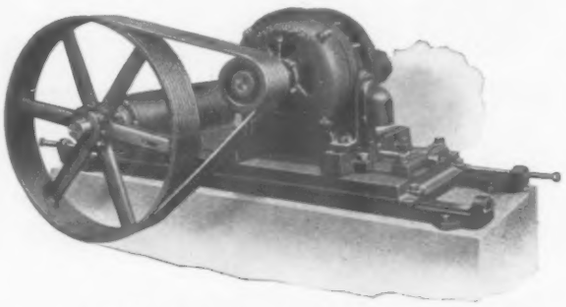
# Serving West Texas

## *Allis-Chalmers Equipment in*

# Stock at Sweet Water



*Double Reduction Oil Well Pumping Unit*
*Ratings—15-35; 20-50; 25-65 H. P.*



*Single Reduction Texrope Countershaft*
*Ratings—15-35; 20-50; 25-65 H. P.*

The addition of Sweet Water as a stock point for Allis-Chalmers oil field equipment enables the company to give you better service. You can now order pumping equipment with the assurance that you will get it when you want it.

Double and Single Reduction Units, 15-35-H.P., complete with motor and control.

Type "SSU" Centrifugal Pump Units in sizes 1½", 2" and 2½"; 2300-R.P.M., 220 and 440-volt.

Oil Well Motors and Controls; 15-35-H.P. Standard Squirrel Cage Motors in various ratings and speeds.

Pittsburgh Type Transformers in standard ratings up to 75-K.W. and in several voltage combinations.

Stocks of transformers, motors and reduction units are carried at Tulsa and Houston.

Texrope Drives, 2 to 50-H.P. are carried in stock at Milwaukee.

*Double Rated Oil Well Motor*
*Ratings—25-35; 20-50; 25-65 H. P.*

*Type "SSU" Motor Driven*
*Centrifugal Pump*
*1¼"x1¼" to 2½"x2½"*

**Oil Field Offices**

DALLAS
HOUSTON
NEW ORLEANS
KANSAS CITY
DENVER
LOS ANGELES
SAN FRANCISCO

WESTERN SUPPLY COMPANY
TULSA, OKLAHOMA

# ALLIS-CHALMERS

## MILWAUKEE, WIS. U. S. A.

*Say you saw it in The OIL WEEKLY*

# WEST TEXAS DRY HOLE RECORD FOR PAST TWELVE MONTHS

## MENARD COUNTY

| Company and Dry Hole Location— | Surface Elevation | Top Salt | Top Lime | Total Depth | Date Completed |
|---|---|---|---|---|---|
| Carpenter & Robbins' Kothman 2, 450 ft w and 150 ft n of se cor sw¼ sec 22, J. P. Kuhlman sur | 1913 | .... | .... | 660 | 7- 3-28 |
| Sabiens & Bevins' F. Wilhelm 1, c sec 28, Indianola Ry Co sur | .... | .... | .... | 410 | 7- 3-28 |

## MIDLAND COUNTY

| | | | | | |
|---|---|---|---|---|---|
| J. M. Gholson et al's Moreland 1, c se¼ sec 17, blk 39, T&P Ry Co sur, T-1-S | 2818 | 1910 | .... | 4377 | 6-30-28 |

## MITCHELL COUNTY

| | | | | | |
|---|---|---|---|---|---|
| Magnolia Pet. Co.'s Mary Foster 5, 330 ft from se cor sec 17, blk 29, T&P Ry sur, T-1-S | 2316 | .... | 1738 | 3150 | 5- 1-28 |
| Magnolia Pet. Co.'s T. L. McKinney 1, 330 ft from nw cor sec 30, blk 29, T&P Ry sur, T-1-S | 2307 | .... | 1980 | 4208 | 8-16-27 |
| Magnolia Pet. Co.'s W. W. Watson 2, 330 ft from nw cor sec 20, blk 29, T&P Ry sur, T-1-S | 2332 | .... | 1750 | 4154 | 7-30-27 |
| Paul C. Teas & Healdton Oil Co.'s A. C. Mills 1, 330 ft from nw cor C. A. O'Keefe sub-div No. 11, J. P. Smith sur | 2187 | .... | 1298 | 1766 | Mar., 1928 |
| Thraves & Texo-Kan Oil Co.'s W. F. Sanders 1, 400 ft n and 1700 ft e of sw cor sec 25, blk 25, T&P Ry sur | 2253 | .... | 2245 | 3346 | 9-20-27 |
| Robt. Thraves et al's C. E. Way-Crump 1, 330 ft from ne cor se¼ nw¼ sec 91, blk 27, T&P Ry sur | 2126 | .... | 2140 | 2509 | Aug., 1927 |

## NOLAN COUNTY

| | | | | | |
|---|---|---|---|---|---|
| Phillips Pet. Co.'s H. G. Scott 1, 330 ft from se cor ne¼ sec 58, blk 21, T&P Ry Co sur | 2076 | .... | .... | 3746 | 8-16-27 |
| John Winemiller Corp.'s T. E. Arledge 1, 1662 ft from s 1347 ft from e lines sec 217, blk 1, H&TC Ry Co sur | 2310 | .... | .... | 3130 | 1-18-28 |
| John Winemiller Corp.'s W. L. Booth 1, c se¼ sec 90, blk 21, T&P Ry Co sur | 2328 2341 | .... | .... | 3213 | 9-14-27 |
| H. Zweifel & John Hofmeier's Longbotham 1, c se¼ sec 130, blk 1, H&TC Ry sur | 2528 | .... | .... | 3645 | 2- 1-28 |

## PECOS COUNTY

| | | | | | |
|---|---|---|---|---|---|
| Allsman & Bell et al's Pecos River 2, 655 ft s and 564 ft e of ne cor sec 64, blk 1, I&GN Ry sur | 2155 | 405 | .... | 1509 | 8-16-27 |
| Geo. Anderson et al's Sherbino 1, 1320 ft s of nw cor and 50 ft from w line sec 43, blk C-4, GC&SF Ry Co sur | 2866 | 928 | 2660 | 2700 | 2- 3-28 |
| Geo. Anderson-Menzie et al's McKenzie 1, c se¼ n½ sec 6, blk 604, GC&SF Ry Co sur | 2928 | 1010 | 2187 | 2596 | 11-15-27 |
| F. K. Bateman-E. W. Price et al's Pecos River 1, 150 ft from ne cor sec 29, blk 12, H&GN Ry sur | 2227 | 565 | 1340 | 1514 | 6-27-28 |
| J. G. Buell-A. M. Hagan et al's Batchler-Southern Life 1, 1320 ft from e and 660 ft from n lines sec 89, GC&SF sur | 3136 | .... | .... | 2933 | 10-20-27 |
| J. G. Buell-A. M. Hagan et al's Jasper Co. School 1, 5280 ft from n and e lines sur No. 104, J. C. S. Lands | 3307 | 1527 | .... | 2902 | 10- 7-27 |
| J. G. Buell-A. M. Hagan et al's Pryor-Wilson 1, 1570 ft from s and 2240 ft from e lines sec 16, blk 5, T. C. Ry Co sur | 2930 | 1445 | .... | 2508 | 4- 5-28 |
| T. R. Cowell-Benedum-Trees' J. C. Trees 1, 990 ft from se cor sec 50, blk 8, H&GN Ry sur | 2545 | 2305 | 2875 | 3502 | Oct., 1927 |
| Cummings et al's Blackstone-Slaughter 1, c n½ of sec 23, blk 129, T. & St. L. Ry sur | 3148 | .... | .... | 2528 | 12-17-27 |
| C. F. Day-McKnight et al's I. G. Yates 1, 150 ft from nw cor Lse in sec 58, blk 1, I&GN Ry sur | 2213 | 440 | .... | 1400 | 2-27-28 |
| Diamond Pet. Co.'s Blackstone-Slaughter 1, c w½ sec 27, blk A-2, T. C. Ry Co sur | 2529 | 885 | .... 1350 | 2250 | 7- 5-28 |
| Douglas Oil & Roxana's Sellman (White-Baker 1) 330 ft from w cor se¼ sec 6, blk 194, GC&SF Ry sur | 2443 | 750 | 1390 | 1519 | 11- 7-27 |
| Douglas Oil Co. & Roxana's Sellman 2, 990 ft from n and 2310 ft from w lines sec 14, blk "Z", T. C. Ry sur | 2548 | .... | 1528 | 1616 | 1-25-28 |
| Rob Elmore et al's M. Holmes 1, c sw¼ e½ sec 542, blk 1, I&GN Ry Co sur | 2176 | 335 | .... | 2010 | 10- 7-27 |
| R. F. Garland & Co.'s McKenzie (El Paso Cattle Co.) 1, c ne¼ sec 26, blk 126, T. & S. L. Ry sur | 3264 | 1680 | 2500 | 3501 | 10-25-27 |
| Gibson Oil Corp.'s R. R. Russell 1, c ne¼ sec 69, blk 3, CCSDRGNG Ry sur | 3509 | .... | .... | 3010 | 4- 5-28 |
| Geo. A. Henshaw Jr. et al's B. T. Corder 1, c sw¼ sec 74, blk 2, CCSDRGNG Ry sur | 2980 | 1130 | .... | 2517 | 2-15-28 |
| Geo. A. Henshaw Jr. et al's Sweatt-Hinyard 1, c sw¼ sec 29, blk 144, T. & St. L Ry sur | 2770 | .... | 1245 | 2506 | 12-24-27 |
| Kershaw & Livingston's Cannon 1, 330 ft from nw cor ne¼ sec 54, blk A-2, T. C. Ry Co sur | 2797 | 1050 | .... | 2571 | 4- 5-28 |
| Kirby Petroleum Co.'s University 1, 300 ft from ne cor sec 36, blk 24 | 2785 | .... | 1305 | 1356 | 4-10-28 |
| Kirby Pet. Co. & Edson Pet. Co.'s A. Harral 1, c se¼ sec 35, blk C-4, GC&SF Ry sur | 2926 | 1005 | 2770 | 3001 | 1- 5-28 |
| Kirby Pet. Co. & Roxana's W. W. Turney 1, 200 ft from nw cor sw¼ sec 11, blk 140, T. & St. L. Ry Co sur | 2605 | .... | 965 | 1191 | 10-20-27 |
| Mays-Nixon & Co.'s F. A. Perry 1, c nw¼ sec 1, blk "Z", T. C. Ry Co sur | 2672 | 795 630 | 2070 | 2085 | 6-29-28 |
| J. G. Michaelson & Roxana's Pecos River Bed 1, n 45 deg w 45 ft from nw cor sec 10, blk 9, H&GN sur | 2411 | 640 | .... | 2012 | 4-12-28 |
| Mid-Kansas O&G Co.'s Pryor-Wilson 1, 330 ft from nw cor sec 3, blk 5, T. C. Ry sur | 2790 | 1465 | 3200 | 3330 | 6-23-28 |
| Mid-Kansas-Transcontinental Oil Co.'s M. A. Smith 1, 1320 ft from n and from most westerly e lines sec 31, blk 194, GC&SF Ry sur | 2455 2472 | 665 | 1255 1375 | 1565 | 11-15-27 |
| Mid-Kansas-Transcontinental's I. G. Yates 18-B, 1628 ft from s and on e line sec 61, blk 1, I&GN Ry | 2154 | .... | 910 | 1108 | 2- 8-28 |
| Moody Corp.'s B. T. Corder 1, c sw¼ sec 77, blk 2, CCSDRGNG Ry sur | 2996 | 1120 | 2790 | 2965 | 2-20-28 |
| Moutray Oil Co. & World Oil Co.'s A. G. Robertson 1, 1600 ft from ne line and 2310 ft from se line sec 28, blk 10, H&GN Ry | 2567 | .... | 1245 1172 | 1454 | 8-11-27 |
| Oil Operators Trust, Inc.'s Pecos River Bed 11, 4992 ft e and 339 ft n of nw cor sec 545, T. 1. & M. Co sur, A-1325 | 2183 | 590 | 1840 1865 | 2114 | 1-23-28 |
| Olean Pet. Co.'s G. Alph Harral 1, c sw¼ sec 82, blk R-3, GC&SF Ry sur | 3005 | 1036 1135 | 2943 | 4030 | 1-24-28 |
| Olean Pet. Co.'s Sherbino Bros. 1, c nw¼ sec 31, blk C-4, GC&SF Ry sur | 3060 | 1173 | .... | 2508 | 5-18-28 |
| Oregon Oil Corp.'s I. G. Yates 1, 200 ft from nw cor sec 58, blk 1, I&GN Ry sur | 2433 | 601 | 1368 | 1430 | 4- 7-28 |
| Quinby Oil Co.'s E. W. Bennett 1, c nw¼ sec 592, blk 105, GC&SF Ry sur | 2562 | .... | .... | 1457 | 5-16-27 |
| Quinby Oil Co.'s A. A. Gray 1, 660 ft from s and 1320 ft from e lines sec 593, Abstract No. 3009 | 2551 | .... | .... | 700 | 5-25-27 |
| Red Bank Oil Co.'s McKenzie 1, c n½ sec 21, blk 126, T. & St. L. Ry sur | 3256 3279 | 1680 | 2640 | 3512 | 9-14-27 |
| J. V. Rowan-Tong & Atlantic Oil Prod. Co.'s Scharff-Blackman 1, 1980 ft from w and 990 ft from n lines of s½ sec 4, blk 9, H&GN Ry sur | 2433 | 752 | 1712 | 2215 | 4-14-28 |
| W. R. Shankel et al's I. G. Yates 1, 2950 ft w and 890 ft n of se cor sec 58, blk 1, I&GN Ry sur | 2200 | 425 | 1301 | 1479 | 7-11-27 |
| Simms Oil Co.'s A. J. Devlin 2, 330 ft from ne cor sec 2, J. C. Duval sur | 2609 | .... | 1020 | 1130 | 9-15-27 |
| Stidham & Thrasher's Belgrade Ranch Co. 1, 2640 ft n and 3300 ft e of sw cor sec 3, but in Mrs. S. Thompkins sur No. 4625 | 2695 | .... | 1300 | 2020 | 3-20-28 |
| Sun Oil Co.'s I. G. Yates 1, 300 ft from nw cor e½ sec 51, blk 1, I&GN Ry sur | 2178 | 365 | 1190 | 1224 | 1-23-28 |
| Transcontinental Oil Co.'s Blackstone-Slaughter 1, 250 ft from s and 1150 ft from w lines sec 29, blk 129, T. & St. L. Ry sur | 3539 | .... | 1508 | 4988 | 2-18-28 |
| World Oil Co.'s M. Cerf 1, c ne¼ sec 10, blk 130, T. & St. L. Ry Co sur | 3435 | .... | 1470 | 3505 | 6-13-28 |

## PRESIDIO COUNTY

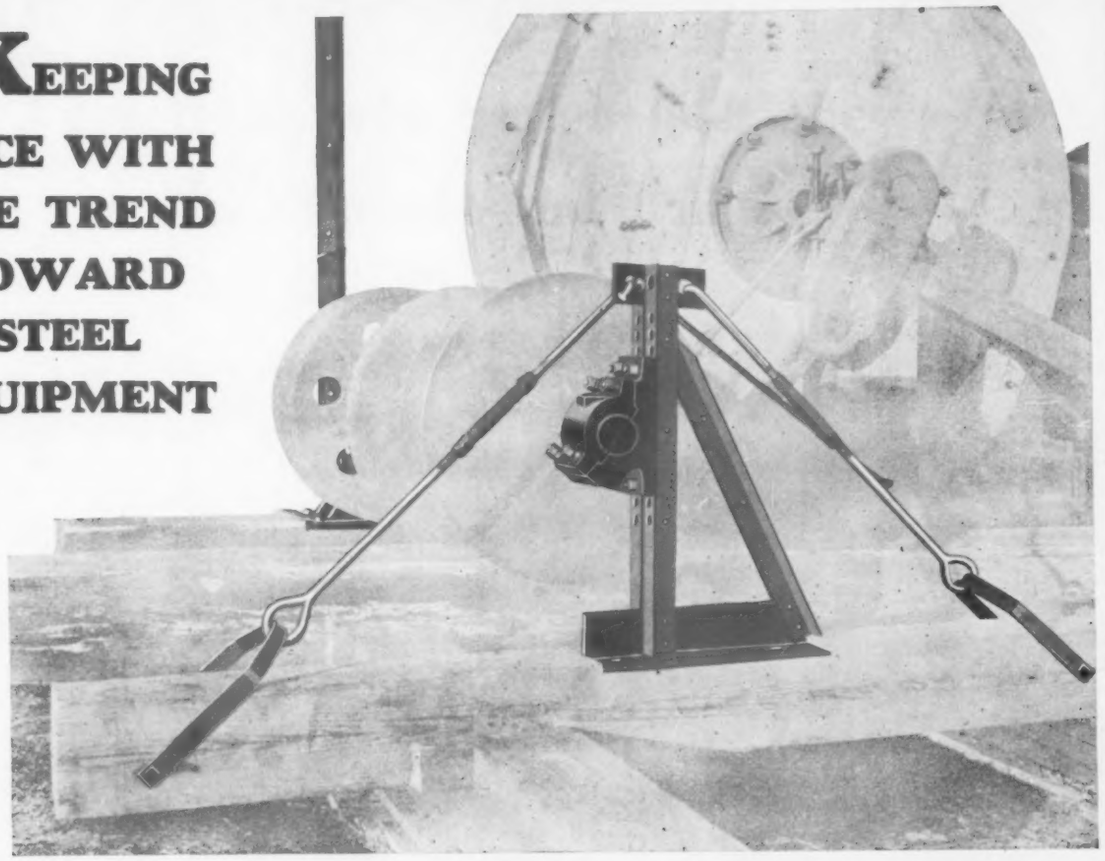
| | | | | | |
|---|---|---|---|---|---|
| Hadlock-Miller & Claude Byler's Tootle 1, sec 123, blk 3, D. & P. Ry Co sur | 2912 | .... | .... | 3507 | 12-10-27 |

## REAGAN COUNTY

| | | | | | |
|---|---|---|---|---|---|
| Camp & Geo. A. Henshaw Jr. et al's University 1, c sw¼ sec 14, blk 48 | 2772 | 1130 | 2206 | 2550 | 1-24-28 |
| A. M. Hagan-J. W. Emch & Marland Prod. Co.'s E. W. Loftin 1, c e½ sec 1217, D. & S. E. Ry Co sur | 2610 | 1065 | 2750 | 3067 | 4-22-28 |
| Marland Prod. Co.'s University 1, 330 ft from se cor sw¼ sec 26, blk 8 | 2931 | 1360 | 3159 | 3205 | 4-26-28 |
| Roxana Pet. Corp's Sawyer Cattle Co. 1, 3000 ft s of c of n line sec 15, blk "A", R. Casey sur | 2635 | 1105 | 2785 | 3347 | 4- 4-28 |
| Roxana Pet. Corp.'s University 1, 330 ft from nw cor sec 30, blk 11 | 2674 | 1120 | 2393 | 2826 | 6-19-28 |
| Skelly Oil Co. & Utah Southern's University 2, 1653 ft from s and 1685 ft from e lines sec 35, blk 8 | 2918 | 1340 | 3081 | 3158 | 5-10-28 |
| The Texas Co.'s J. D. Sugg 3, c sec 165, blk 2, T&P Ry sur | 2636 | 990 | 2430 | 3014 | 4- 4-28 |

(Continued on page 114)

# KEEPING PACE WITH THE TREND TOWARD STEEL EQUIPMENT



**BESSE STEEL SAND REEL SUPPORT**

# 2 Popular Products

## *that have won recognition through merit*

THE BESSE STEEL SAND REEL SUPPORT offers numerous advantages over the operation of ordinary supports. The sand reel pulley is adjustable to the proper friction contact with face of band wheel, reducing wearing of band wheel, and resulting in longer life, with less wear on the driving belt. Proper spooling of the sand line insured at all times, by wide-range *vertical* adjusting.

Constant lubrication of the sand reel shaft bearing, through oil chamber in the bearing box cap, prevents friction and materially reduces bailing time. PRICE $185, f. o. b. Tulsa. For complete illustrated folder address

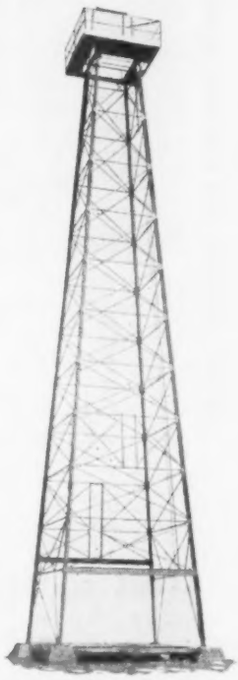
NATIONAL TURNBUCKLE DERRICK CO.
*General Offices:*
TULSA, OKLAHOMA

*Affiliated Companies:*
MAHAN, McCARTY & BESSE
Rig Building Contractors

ACME LUMBER COMPANY
Retail Lumber, Rig Timbers and Building Material
*Yards at:* Burbank, Shidler, Wynona, Okla. and Philips, Pampa, Skellytown, Sanford, Trent, White Deer and Royston, Texas.

*The NEW NATIONAL STEEL DERRICK is built for strength, long life and heavy duty, for cable tool or rotary drilling. Patented design and exceptional quality steel construction have made this derrick the latest word in safety and salvageability. Write for descriptive literature.*

NEW



NATIONAL TURNBUCKLE DERRICK CO.

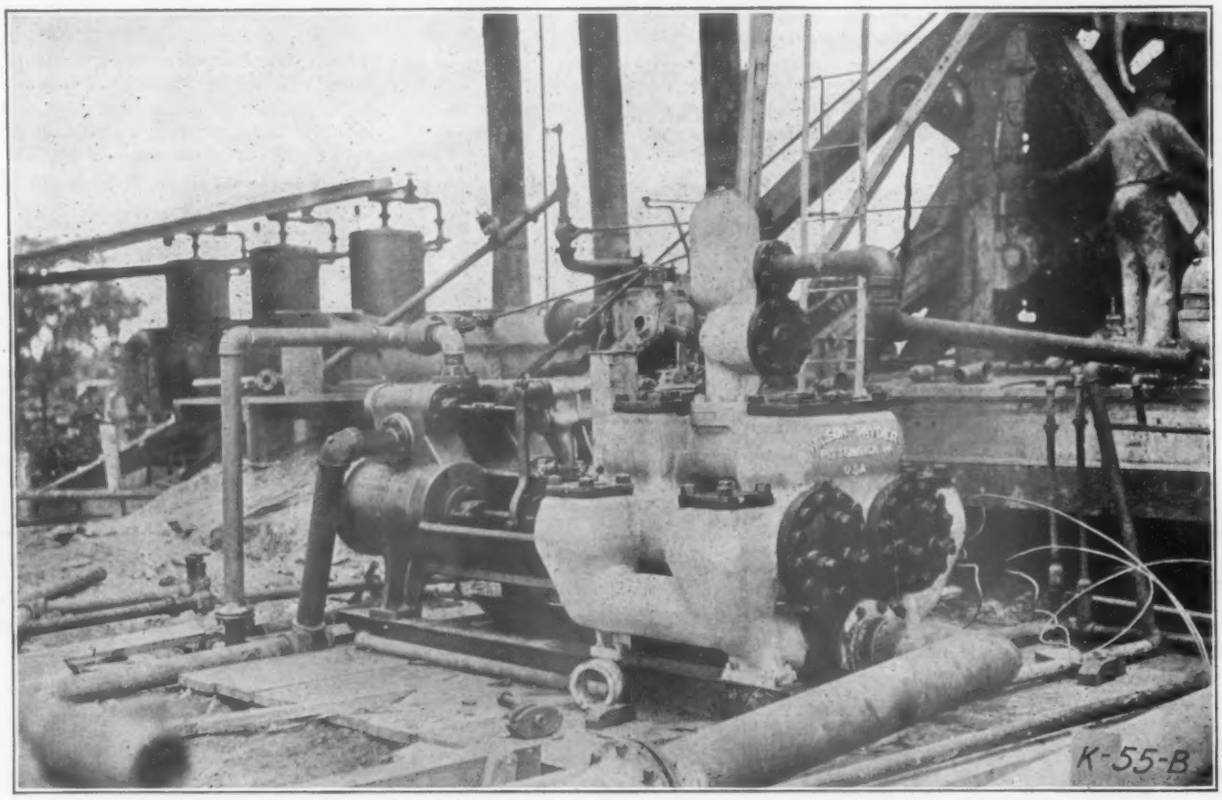
NATIONAL *Steel* DERRICK
*(write for descriptive literature-)*

# WEST TEXAS DRY HOLE RECORD FOR PAST TWELVE MONTHS

| Company and Dry Hole Location— | Surface Elevation | Top Salt | Top Lime | Total Depth | Date Completed |
|---|---|---|---|---|---|
| J. T. White et al's Schoffner (Schafner-Sterling) 1, 330 ft from se cor nw¼ sec 10, GC&SF Ry sur | 2695 | 1275 | 2485 | 2886 | 4-23-28 |
| **REEVES COUNTY** | | | | | |
| Grisham-Hunter Corp. J. S. Cosden & Co.'s Conner-Rathje 1, 660 ft from n and 5760 ft from w lines sec 26, blk 2, H&GN Ry sur | 2667 | 1037 | 4087 | 4267 | 5-26-28 |
| Humble O&R Co.'s TP Fee 1-B, c ne¼ sec 47, blk 56 T&P Ry sur, Tsp 2 | 2773 | 2765 | 3333 | 3758<br>3887 | 8-10-27 |
| Vacuum Oil Co.'s Grisham-Hunter 1, 2640 ft s and 150 ft w of ne cor sec 46, blk 55, P. S. L. sur | 3285 | .... | 2905 | 3648 | 4-18-28 |
| World Oil Co.'s B. T. Biggs 1, c se¼ sec 85, blk 112, P. B. W. C. Wilson sur | 3064 | .... | 2594 | 3006 | 3- 6-28 |
| World Oil Co.'s A. L. Duff 1, 1500 ft from s and 850 ft from ne line sec 68, R. S. Johnson sur | 2774 | 1940 | 4185 | 4514 | Oct., 1927 |
| **RUNNELS COUNTY** | | | | | |
| Empire Gas & Fuel Co.'s C. C. Clay-Gray 1, 660 ft from s and 2092 ft from e lines sec 147, E. T. Ry Co sur | 1771 | .... | .... | 2602 | 3- 7-28 |
| Gibson-Johnson et al's H. P. Serratt 1, c se¼ nw¼ sec 150, E. T. Ry Co sur | 1681 | .... | .... | 3230 | 5-15-28 |
| Globe Pet. Co.'s J. H. Webb 1, 500 ft from ne cor R. A. Smith sur No. 2 | 1670 | .... | .... | 2510 | 3-28-28 |
| H. L. Griswold & Royal Pet. Co.'s A. C. Willingham 1, 150 ft from ne cor lot 25, Domingo Diaz sur | 1707<br>1726 | .... | .... | 2617 | 7- 3-28 |
| Marland Prod. Co.'s R. R. Russell 1, sw part of S. F. G. Roach sur | 1839<br>1845 | .... | .... | 3060 | 6-12-28 |
| Marland Prod. Co. & E. L. Smith Oil Co.'s A. C. Herring 1-A, c sec 121, E. T. Ry Co sur | 1927 | .... | .... | 3100 | 7- 6-28 |
| Noble Oil & Gas Co.'s Simms 1, c s½ sec 12, J. J. McHenry sur | 1721 | .... | .... | 3506 | 12-23-27 |
| Swensondale Oil Co.'s E Werner 1, 160 ft from s and 644 ft from w lines sec 160, J. H. Wilson sur | 1803 | .... | .... | 3445 | 5-17-28 |
| **SCHLEICHER COUNTY** | | | | | |
| General Securities Co.'s Whitten 1, c nw¼ sec 35, blk "LL", T. C. Ry Co sur | .... | .... | .... | 390 | 5-30-27 |
| Thos. Gray et al's Ball-Robinson 1, c nw¼ sec 25, blk "M", GH&SA Ry Co sur | 2374 | .... | .... | 3507 | 2- 2-28 |
| **STERLING COUNTY** | | | | | |
| Wm. "Bill" Little et al's Fisher Bros. 1, 330 ft from ne cor se¼ sec 1, blk "T", T&P Ry sur | 2428 | .... | .... | 1486 | 9- 5-27 |
| **STONEWALL COUNTY** | | | | | |
| R. F. Garland & Co.'s J. W. Ward 1, c sw¼ sec 153, blk "D", H&TC Ry sur | .... | .... | .... | 3054 | 8-18-27 |
| Peer Oil Corp. & Producers Oil Co.'s R. P. Morrow 1, c ne¼ sec 105, blk "B", H&TC Ry Co sur | 1748 | .... | .... | 3038 | 12- 1-27 |
| **SUTTON COUNTY** | | | | | |
| National Potash Co.'s J. N. Ross 1, 1300 ft from nw cor sec 6, blk 14, TWNG Ry Co sur | .... | .... | .... | 1436 | 6- 7-28 |
| **TAYLOR COUNTY** | | | | | |
| A. J. Brown Producing Co.'s Henslee 1, 150 ft from ne cor Burr & Caswell sur No. 5 | 2010<br>2090 | .... | .... | 3015 | 3- 7-28 |
| Halbert-Pettit & Connell's C. M. Hunt 1, c se¼ sec 124, blk 64, H&TC Ry Co sur | 2124 | .... | .... | 3003 | 8-15-27 |
| Gilbert Johnson & Dyar Bros.' C. M. Brown 1, 660 ft from sw cor se¼ sec 6, T&P Ry sur | 2090 | .... | .... | 3003 | 2-20-28 |
| Morrison & Thompson et al's Mrs. Alice Rose 1, 330 ft from sw cor ne¼ sec 29, blk 19, T&P Ry sur | 1921 | .... | .... | 2651 | 9-14-27 |
| Owen-Sloan et al's Latimer-Toombs 1, 910 ft from s and 330 ft from e lines w½ sec 14, blk 9, S. P. Ry sur | 2010 | .... | .... | 3001 | 2- -28 |
| Roeser-Pendleton, Inc.'s Sam Butman 1, c w½ nw¼ sec 64, blk 5, T&P Ry sur | 2129 | .... | .... | 3206 | 1-25-28 |
| World Oil Co.'s J. R. Griffith 1, 2310 ft from n and e lines sec 32, Blind Asylum Lands | 1695 | .... | .... | 3680 | 8-31-27 |
| **TERRELL COUNTY** | | | | | |
| Deep Rock Oil Co.'s H. C. Noelke 1, 330 ft from se cor sec 4, blk "A-21", T. C. Ry sur | 2336<br>2405 | 830 | 1130 | 3502 | 6-25-28 |
| Humble O&R Co.'s University 1, 490 ft from n and 2790 ft from e lines sec 15, blk 34 | 2284 | .... | .... | 4470 | 6-22-28 |
| **TERRY COUNTY** | | | | | |
| King Pet. Co.'s Brownfield 1, 980 ft from s and 204 ft ft from w lines sec 7, blk "A-1", E. L. Ry sur | 3205 | .... | .... | 4008 | 3-10-28 |
| **UPTON COUNTY** | | | | | |
| Atlantic Oil Prod. Co. et al's Elkins 1, 330 ft from sw cor se¼ sec 34, blk 38, T&P Ry sur, T-5-S | 2741 | 1590 | .... | 3931 | 7- 6-28 |
| Eastland Oil Co. et al's Cordova Union Fee 1, c se¼ sec 34, blk 1, MK&T Ry sur | 2514 | 570 | 2020 | 2222 | 11-12-27 |
| Cowboy Evans-Wilburn et al's Unive sity 1, 15 ft from e and 30 ft from s lines sec 10, blk 15 | 2401 | 1020 | .... | 2305 | 4-26-28 |
| J. M. Hickey et al's W. I. Gormley 1, 330 ft from sw cor ne 40-ac of sw¼ sec 7, blk 36, H&TC Ry sur | 2358 | 472 | 2093<br>2115 | 2195 | 10-12-27 |
| L. E. Hults-Mark Curtis et al's D. C. Giddings 2, 5336 ft from n and 6678 ft from e lines League No. 1, Throckmorton County School Lands (sec 5) | 2757 | 1595 | .... | 3531 | 7- 5-28 |
| Marland Prod. Co.'s University 1, c e½ sec 17, blk 5, University Lands | 2672 | 1275 | 3195<br>3230 | 3725 | 8-30-27 |
| Southern Crude Oil Pur. Co.'s C. W. Hobbs 1, 330 ft from se and sw lines sec 61, blk 35, H&TC Ry sur | 2510 | 535 | 2181 | 3249 | 2-15-28 |
| Tulsa Drilling Co. et al's W. A. Cheney 1, 660 ft from e and 330 ft from s lines nw¼ sec 18, blk 3, MK&T Ry sur | 2749 | 670 | 2250 | 2435 | 12- 1-27 |
| Wise & Jackson et al's J. H. Porter 1, 330 ft from sw cor sw¼ sw¼ sec 184, blk "E", CCSDRGNG Ry sur | 2589 | 1370 | 3349 | 3517 | 9- 9-27 |
| F. P. Zoch et al's Union Land Co. 1, 1980 ft from nw and ne lines sec 13, blk 36, H&TC Ry sur | 2546 | 625 | 2230 | 2319 | 7- 2-28 |
| **VAL VERDE COUNTY** | | | | | |
| Douglas Oil Co.'s Sellars 1, c sw¼ sec 82, blk "A", I&GN Ry sur | 1270 | .... | .... | 4280 | 12- 3-27 |
| Magnolia Pet. Co.'s W. E. Whitehead 1, 1900 ftt from w and 960 ft from s lines sec 81, blk "D", GC&SF Ry sur | 1770 | .... | .... | 6725 | 4-25-28 |
| S. A. McCaskey (Hiawatha Oil Co.'s) Sellars 1, 1000 ft s and 4200 ft e of nw cor sec 1031, GC&SF Ry sur | .... | .... | .... | 3502 | Sept., 1927 |
| E. T. Williams & Columbine Oil Co.'s Hollman 1, sec 5, blk "N", GH&SA Ry sur | 895<br>1300 | .... | .... | 2940 | July, 1927 |
| **WARD COUNTY** | | | | | |
| Alfredo del Cambre et al's Monroe-Gillespie 1, 2640 ft sw and 150 ft se of n cor sec 50, blk 33, H&TC sur | .... | .... | .... | 65 | Mar., 1928 |
| Estex Oil Co.'s W. A. Estes 1, 2640 ft s and 150 ft w of ne cor sec 4, blk 29, P. S. L. sur | 2508 | 645 | 2770 | 3530 | 7- 5-28 |
| Rector Oil Co.-Marland & Amerada's State Fee 1, 990 ft from ne and nw lines sec 30, blk 4, H&TC Ry sur | 2438 | 535 | 2277 | 2311 | 6-18-28 |
| Selby O&G Co et al's Dooley-Rogers 1, 1cn at c tof e line sec 96, blk "A", GMMB&A sur | 2661 | 3310 | .... | 3633 | 6-11-28 |
| **WINKLER COUNTY** | | | | | |
| Cranfill Bros. Oil Co. & The California Co.'s M. J. Bashara 1, lcn at c corners secs 10, 11, 22 & 23, blk 77, P. S. L. sur | 2985 | 1100 | .... | 3503 | 12- 9-27 |
| Danciger O&R Co. et al's John Sealy 1, 330 ft from sw cor ne¼ sec 93, blk "A", GMMB&A sur | 2691 | 1085 | 3115 | 3501 | 7- 9-28 |
| Gibson-Johnson & White Eagle O&R Co.'s Leck-Collins 1, lcn on n line and 1320 ft from e line sec 30, blk 74, P. S. L. sur | 2830 | .... | 3155 | 3700 | 4- 5-28 |
| Humble O&R Co.'s T. G. Hendrick 1, (Group No. 1), c se¼ sec 36, blk 27, P. S. L. sur | 2823 | 2120 | 3095 | 3258 | 10-18-27 |
| L. D. Ladd-Ed Hill & Tidal Oil Co.'s J. W. Amburgey 1, c sec 24, blk "B-7", P. S. L. sur | 2995 | 1220 | .... | 4800 | 11-13-27 |
| R. S. Matthews et al's Cowden 1, c sec 7, blk A-57, P. S. L. sur | 3128 | 1623 | .... | 4100 | 11-16-27 |
| McCulloch & Marland Prod. Co.'s Tobe Morton 1, lcn at c of e line sec 20, blk "B-12", P. S. L. sur | 2750 | 2110 | 3262 | 3504 | 9- 7-27 |

# *Our regular customers now*

## are those who bought just one No. 18 pump and drilled a well with it




## Why not try one and then compare drilling costs?

***Our long stroke No. 18 is cheapest in the long run***

**WILSON-SNYDER**

BUILDERS OF HEAVY DUTY PUMPS FOR OVER FIFTY YEARS

**PITTSBURGH, PA U.S.A.**

*Say you saw it in The OIL WEEKLY*

# West Texas Tank Capacity Above 45 Million Barrels

## Enforcement of proration in big flush fields leaves large capacity unused; pipe lines build stocks to insure capacity

SAN ANGELO, Texas—Erection of tankage in the West Texas district during the past 12 months has involved a greater number of barrels capacity than any other district during the same period, and on July 21 the total amount of large steel tankage reached an aggregate of 43,419,000 barrels, without including two 1,000,000 barrel concrete reservoirs. Storage facilities in the district are now more than four times greater than the total listed in July, 1927. Independent producers have shared a large part of this new tank construction because of restricted market outlet for crude before proration of the flush fields became effective.

Crude stocks in the West Texas district at the close of June, 1928, climbed to a new peak of 29,540,080 barrels, or approximately 68 per cent. of the total storage facilities, with five major companies holding more than one-half of the above total.

Higher crude prices and profit derived from refined products manufactured in the future from the West Texas storage oil must be obtained by West Texas tank builders to score a profit from their tankage, as the present market value of the oil now in storage is about $18,000,000, while the actual cost of the total tanks erected is conservatively placed at $15,896,000. These figures are determined by placing an average cost of 35 cents per barrel for the 45,419,000 barrels of steel and concrete tanks, and allowing slightly more than 60 cents per barrel in valuing the crude on hand. Except for the small amount of storage oil obtained from Reagan, Mitchell and Jones Counties, the current posted price is only 60 cents per barrel.

Enforcement of proration in the Hendrick field May 5, 1928, lessened the demand for tankage in West Texas, and since completion of tankage programs under way at that time only a few new orders of any size have been placed with the erectors. Only a few companies will add more tanks as long as proration is continued in the Hendrick, Yates and Roberts-Chalk fields, and any new flush areas can be counted on to be restricted in proportion. Magnolia Petroleum Company and Atlantic Oil Producing Company are more than likely to do the most tank building during the last half of this year, owing to Atlantic's desire to accumulate additional reserve crude stocks for its 10-inch pipe line now being built to the Gulf Coast, while Magnolia has booked more common carrier business and outside purchases of crude than it can put through its line over the balance of this year.

Proration of the Hendrick field marked the turning point in crude accumulation in large volumes in West Texas tank farms, as 3,821,500 barrels were added during April, while only 3,021,605 barrels were added in both May and June. The completion of the Shell Pipe Line Company's 10-inch trunk line, extending from McCamey to Healdton, thence to the Great Lakes, about June 1, also served to hold down stocks during the past month, as this line stepped its runs up to a maximum of 40,000 barrels daily.

Magnolia Petroleum Company has accumulated the greatest amount of stored oil, having 4,822,400 barrels on hand at the close of June, besides having contract to transport about 2,000,000 barrels of stored oil for the Warner-Quinlan Company of Texas from the Church and Fields area to the Gulf Coast for tanker movement to Warners, New Jersey. Magnolia Petroleum Company's trunk line out of West Texas is being increased from 25,000 to 32,000 barrels daily, but it is booked to capacity over the rest of this year on other common carrier business, and will not handle any of the above stored oil, which affords a full line for 213 days, without including the current production and outside purchases by Magnolia Petroleum Company and the Warner-Quinlan Company over the future. Warner-Quinlan Company of Texas purchased this oil along with producing properties in the Church and Fields area about May 1, 1928, for $2,700,000.

Atlantic Oil Producing Company is the second largest owner of crude stocks in the West Texas district, having 3,520,525 barrels on hand at the close of June to protect the line now being built to the coast with future reserve. Atlantic has 2,570,175 barrels in storage in Winkler and Midland Counties, and is half owner with Simms Oil Company of 1,900,700 barrels of stored oil in the Church and Fields area.

The Texas Company became a large owner of crude stocks in the West Texas district June 20 when about 3,000,000 barrels of stored oil and the producing properties of the Landreth Production Corporation were purchased for $6,500,000 cash. The Texas Pipe Line Company has since started preliminary work toward the building of a 12-inch trunk line from West Texas to the coast, about 470 miles.

Gulf Production Company, Mid-Kansas Oil & Gas Company (Illinois Pipe Line Company), and Roxana Petroleum Corporation have each accumulated more than two million barrels of storage oil in West Texas to supply their trunk lines with oil when their current production declines below pipe line capacity. South-

### Crude Stocks in West Texas

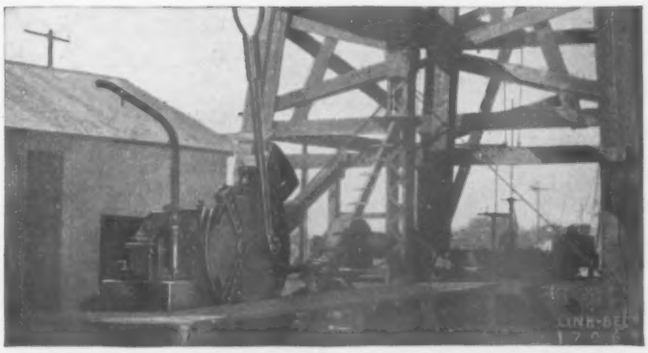
Crude stocks in the West Texas district at the close of June, 1928, are listed below by companies:

| Company— | Barrels |
|---|---|
| Magnolia Petroleum Company | 4,822,400 |
| The Texas Company | 3,217,700 |
| Gulf Production Company | 2,705,540 |
| Atlantic Oil Producing Company | 2,570,175 |
| Mid-Kansas Oil & Gas Company | 2,140,050 |
| Roxana Petroleum Corporation | 2,034,700 |
| Warner-Quinlan Company | 1,937,130 |
| Simms Oil Company and Atlantic Oil Producing Company | 1,900,700 |
| Southern Crude Oil Purchasing Company et al | 1,570,700 |
| Humble Oil & Refining Company | 1,465,200 |
| Prairie Oil & Gas Company | 1,168,050 |
| American Petroleum Company | 1,034,290 |
| Texon Oil & Land Company | 580,780 |
| Marland Production Company | 580,075 |
| Cranfill & Reynolds | *439,675 |
| The California Company (Pasotex) | 405,850 |
| Pure Oil Company | 339,960 |
| Independent Oil & Gas Company | 195,200 |
| Reagan County Purchasing Company | 177,750 |
| Col-Tex Refining Company | 80,000 |
| T. P. Coal & Oil Company | 78,975 |
| Big Lake Oil Company | 40,315 |
| Phillips Petroleum Company | 23,875 |
| Skelly Oil Company | 20,400 |
| Simms Oil Company | 10,590 |
| Total | 29,540,080 |

*Stored by Magnolia under contract.

# Four Reliable Products for the Industry

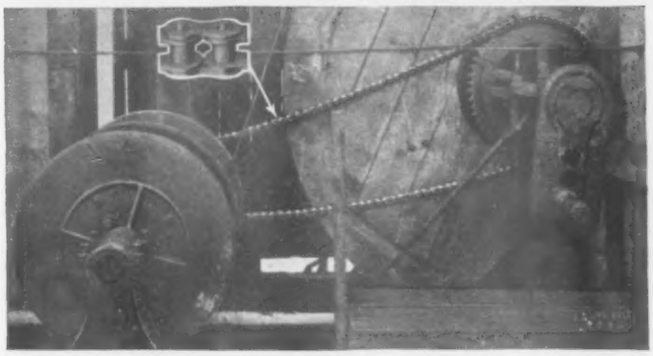
## *"Built and Backed by LINK-BELT"*



## RUE-NEK

OUR experience in the designing and building of machinery—over a period of fifty years—has entered into the construction of the RUE-NEK Pumping Unit. The multiple crank disc, service davit and counterweight mechanism are some of the new and unusual features incorporated in its design, and Link-Belt Herringbone Gears (Sykes tooth form) are used throughout.

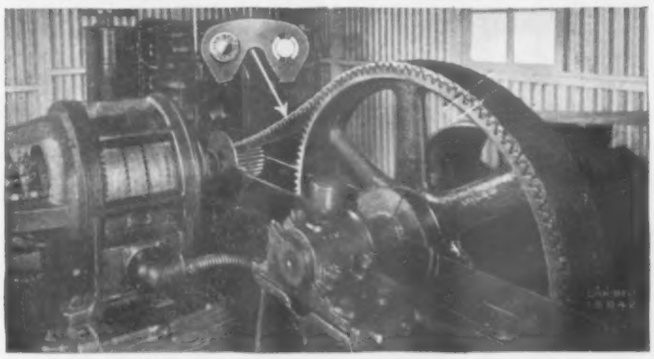
Send for Book No. 780; also list of installations.



## Roller Chain

FOR years Link-Belt "RC" Class Roller Chain has demonstrated its durability in all kinds of severe service. It is standard equipment on some of the largest auto trucks, and this service has proved that the chain can stand shocks and strains without impairing its efficiency.

Send for a copy of Link-Belt Roller Chain Data Book No. 257.

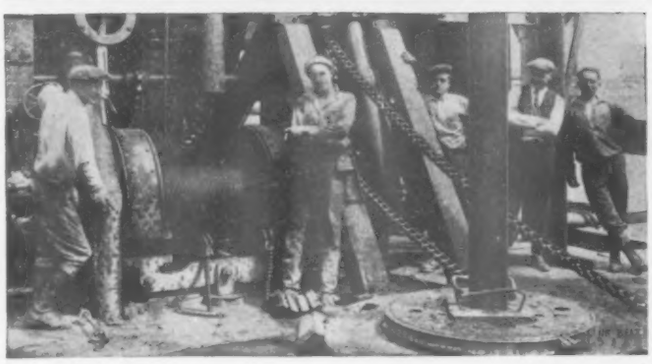


## Silent Chain

FOR the higher speed drive, as from motor to the first countershaft, the Link-Belt Silent Chain Drive is winning increased recognition.

Link-Belt Silent Chain is Flexible as a Belt—Positive as a Gear—More Efficient Than Either.

It is made in sizes from ¼ to 1000 H. P. and over. Send for a copy of the Link-Belt Silent Chain Drive Data Book No. 125.



## Rotary Chain

THE first and most widely known chains in the industry are without doubt the "SS" Class (SS-40 and SS-124) Rotary Drilling Chains, and their corresponding "Plus" Chains (SS-40+ and SS-124+). These Chains have brought a high degree of efficiency to the rotary drilling rig.

This double arrow >——< trade mark identifies Genuine Link-Belt Chains. Carried in stock by stores in every field.

3391

**LINK-BELT COMPANY**

INDIANAPOLIS:—200 S. Belmont Ave. CHICAGO:—300 W. Pershing Road PHILADELPHIA:—2045 W. Hunting Park Ave.
LOS ANGELES:—361 S. Anderson St. DALLAS:—1221 Mercantile Bank Bldg.

# LINK-BELT

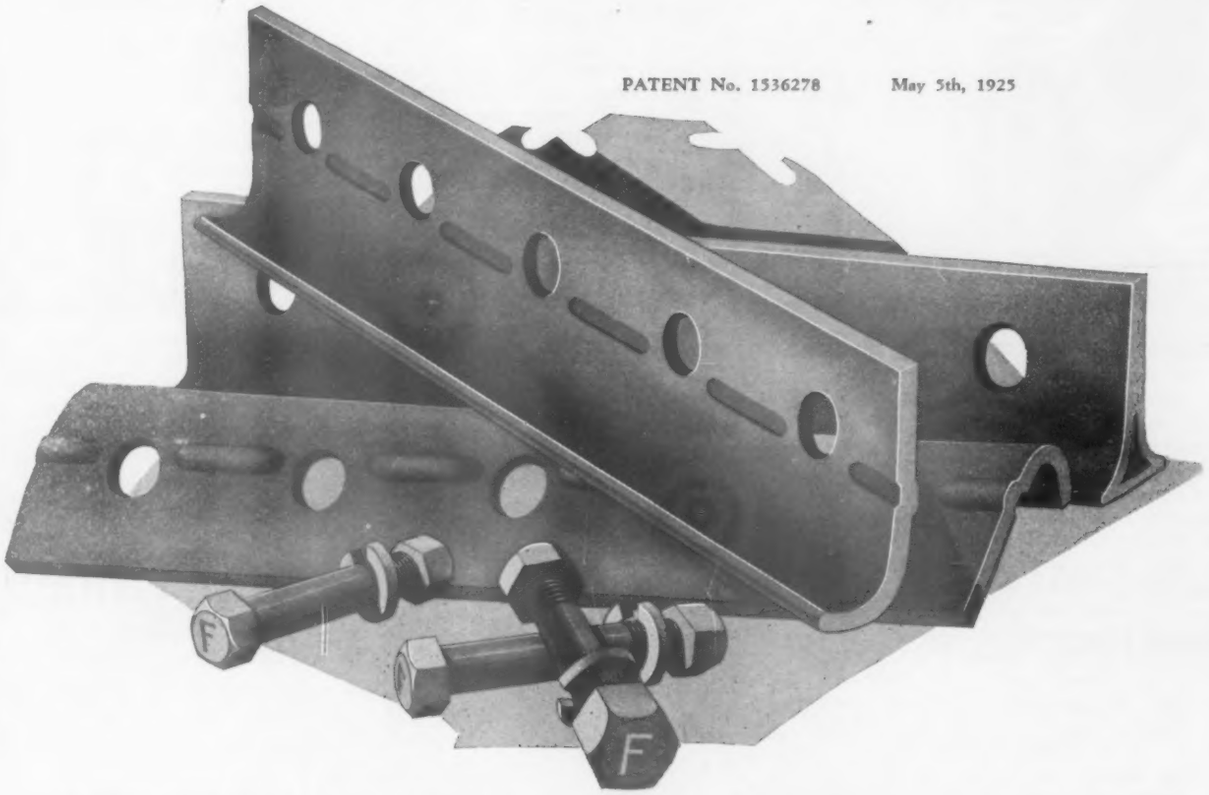
*Say you saw it in The OIL WEEKLY*

# LOCATION OF WEST TEXAS TANKS

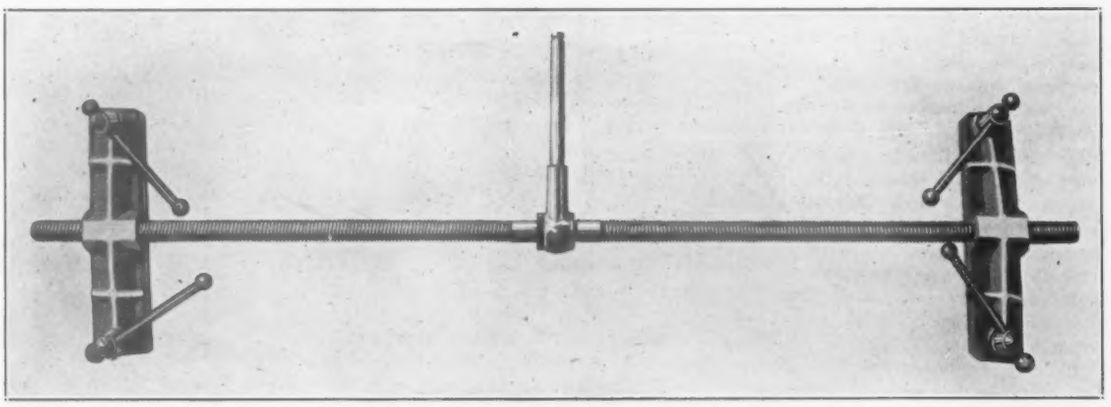
A complete survey of all large steel tankage in use, under construction and contracted for in the West Texas district on July 21, 1928, is listed below by companies:

| | No. comp'd tanks | No. tanks bldg. | Size tanks in bbls. | Location: Section, block and survey— |
|---|---|---|---|---|
| **CRANE COUNTY—** | | | | |
| Atlantic Oil Prod. Co. | 6 | .. | 55,000 | SE¼ Sec. 46, blk 30, University Lands |
| Atlantic Oil Prod. Co. | 6 | .. | 55,000 | NE¼ Sec. 45, blk 30, University Lands |
| Atlantic Oil Prod. Co. | 2 | .. | 74,000 | NE¼ Sec. 45, blk 30, University Lands |
| Gulf Pipe Line Co. | 2 | .. | 80,000 | NE¼ Sec. 202, blk "F", CCSDRGNG Survey |
| Humble Pipe Line Co. | 4 | .. | 55,000 | NE¼ Sec. 216, blk "F", CCSDRGNG Survey |
| Humble Oil & Ref. Co. | 6 | .. | 55,000 | NW¼ Sec. 36, blk 30, University Lands |
| Independent O. & G. Co. | 2 | .. | 55,000 | E½ NW¼ Sec. 46, blk 30, University Lands |
| Magnolia Pipe Line Co. | 4 | .. | 55,000 | SE¼ SE¼ Sec. 44, blk 30, University Lands |
| Prairie Oil & Gas Co. | 3 | .. | 55,000 | NE¼ Sec. 47, blk 30, University Lands |
| Simms Oil Company | 16 | .. | 55,000 | NE¼ Sec. 45, blk 30, University Lands |
| Simms Oil Company | 6 | .. | 55,000 | SE¼ Sec. 46, blk 30, University Lands |
| Southern Pipe Line Co. | 1 | .. | 55,000 | NE¼ Sec. 41, Louis Yarborough Survey |
| The Texas Company | 1 | .. | 37,500 | W¼ Sec. 22, blk 35, H&TC Ry. Survey |
| Texas Co. | 31 | .. | 55,000 | Strip Lease, Survey 10, blk "J-C" |
| Texas Co. | 12 | .. | 80,000 | NE¼ Sec. 8, blk "X", CCSDRGNG Survey |
| Warner-Quinlan Co. | 2 | .. | 80,000 | SW¼ Sec. 47, blk 30, University Lands |
| Warner-Quinlan Co. | 6 | .. | 55,000 | SW¼ Sec. 47, blk 30, University Lands |
| Warner-Quinlan Co. | 1 | .. | 37,500 | SW¼ Sec. 47, blk 30, University Lands |
| Warner-Quinlan Co. | 1 | .. | 80,000 | E½ SW¼ Sec. 39, blk 30, University Lands |
| Warner-Quinlan Co. | 2 | .. | 55,000 | E½ SW¼ Sec. 39, blk 30, University Lands |
| Warner-Quinlan Co. | 1 | .. | 64,000 | W½ NW¼ Sec. 47, blk 30, University Lands |
| Warner-Quinlan Co. | 4 | .. | 55,000 | W½ NW¼ Sec. 47, blk 30, University Lands |
| Warner-Quinlan Co. | 12 | .. | 55,000 | E½ E½ Sec. 44, blk 30, University Lands |
| Warner-Quinlan Co. | 4 | .. | 55,000 | NE¼ Sec. 41, Louis Yarborough Survey |
| **CROCKETT COUNTY—** | | | | |
| Humble Pipe Line Co. | 1 | .. | 55,000 | S½ Sec. 2, blk "BB", N. A. Miller Survey |
| **EL PASO COUNTY—** | | | | |
| Pasotex Pet. Co. | 6 | .. | 80,000 | El Paso Refinery |
| **HOWARD COUNTY—** | | | | |
| Magnolia Petroleum Co. | 7 | .. | 55,000 | SW¼ Sec. 12, blk 30, T&P Ry. Sur. T-1-S |
| **JONES COUNTY—** | | | | |
| Phillips Petroleum Co. | 1 | .. | 55,000 | NW¼ Sec. 19, blk 19, T&P Ry. Survey |
| **MIDLAND COUNTY—** | | | | |
| Atlantic Oil Prod. Co. | 27 | .. | 80,000 | N½ Sec. 40, blk 38, T&P Ry. Sur. T-1-S |
| Atlantic Oil Prod. Co. | 5 | .. | 55,000 | N½ Sec. 40, blk 38, T&P Ry. Sur. T-1-S |
| Gulf Pipe Line Co. | 6 | .. | 80,000 | S½ Sec. 41, blk 38, T&P Ry. Sur. T-1-S |
| Gulf Pipe Line Co. | 4 | .. | 55,000 | S½ Sec. 41, blk 38, T&P Ry. Sur. T-1-S |
| Magnolia Petroleum Co. | 17 | .. | 55,000 | Sec. 43, blk 38, T&P Ry. Sur. T-1-S |
| Magnolia Petroleum Co. | 45 | 5 | 80,000 | Sec. 43, blk 38, T&P Ry. Sur. T-1-S |
| **MITCHELL COUNTY—** | | | | |
| Coltex Refining Co. | 1 | .. | 55,000 | S½ Sec. 42, blk 26, T&P Ry. Survey |
| Coltex Refining Co. | 1 | .. | 35,000 | S½ Sec. 42, blk 26, T&P Ry. Survey |
| Coltex Refining Co. | 3 | .. | 15,000 | NE¼ Sec. 21, blk 28, T&P Ry. Sur. T-1-N |
| Magnolia Petroleum Co. | 6 | .. | 55,000 | W½ Sec. 47, blk 29, T&P Ry. Sur. T-1-N |
| **PECOS COUNTY—** | | | | |
| The California Co. | 1 | .. | 55,000 | Sec. 34, blk 194, GC&SF Ry. Survey |
| Humble Pipe Line Co. | 2 | .. | 64,000 | E½ Sec. 58, blk 1, I&GN Ry. Survey |
| Humble Oil & Ref. Co. | 1 | .. | 55,000 | Sec. 36, blk 194, GC&SF Ry. Survey |
| Illinois Pipe Line Co. | 2 | .. | 55,000 | E½ Sec. 61, blk 1, I&GN Ry. Survey |
| Illinois Pipe Line Co. | 2 | .. | 55,000 | E½ Sec. 62, blk 1, I&GN Ry. Survey |
| Roxana Petroleum Corp. | 2 | .. | 80,000 | N end Sec. 61, blk 194, GC&SF Ry. Survey |
| Simms Oil Company | 3 | .. | 55,000 | Sec. 103, T. C. Ry. Survey |
| **REAGAN COUNTY—** | | | | |
| Big Lake Oil Company | 12 | .. | 55,000 | Sec. 11, blk 2, University Lands |
| Humble Pipe Line Co. | 10 | .. | 66,000 | SE¼ Sec. 11, blk 11, University Lands |
| Humble Pipe Line Co. | 5 | .. | 64,000 | SE¼ Sec. 11, blk 11, University Lands |
| Humble Pipe Line Co. | 2 | .. | 67,500 | SE¼ Sec. 11, blk 11, University Lands |
| Reagan Co. Purchasing Co. | 15 | .. | 80,000 | SE¼ Sec. 11, blk 11, University Lands |
| Texon Oil & Land Co. | 9 | .. | 55,000 | Secs. 35 and 36, blk 9, University Lands |
| **REEVES COUNTY—** | | | | |
| Skelly Oil Co. | 1 | .. | 55,000 | Sec. 68, blk 4, H&GN Ry. Survey |
| **UPTON COUNTY—** | | | | |
| Gulf Pipe Line Co. | 2 | .. | 80,000 | NE¼ Sec. 2, GC&SF Ry. Survey |
| Humble Pipe Line Co. | 17 | .. | 55,000 | N¼ Sec. 65, blk 35, H&TC Ry. Survey |
| Marland Pipe Line Co. | 6 | .. | 80,000 | E¼ Sec. 64, blk 35, H&TC Ry. Survey |
| Marland Pipe Line Co. | 4 | .. | 55,000 | E¼ Sec. 64, blk 35, H&TC Ry. Survey |
| Mid-Kansas O. & G. Co. | 1 | .. | 55,000 | NW¼ Sec. 19, blk 1, MK&T Ry. Survey |
| Mid-Kansas O. & G. Co. | 1 | .. | 55,000 | NE¼ Sec. 34, blk 1, MK&T Ry. Survey |
| Prairie Oil & Gas Co. | 21 | .. | 55,000 | Sec. 31, blk 42, T&P Ry. Survey T-5-S |
| Roxana Petroleum Co. | 8 | .. | 80,000 | Sec. 7, GC&SF Ry. Survey |
| Southern Pipe Line Co. | 2 | .. | 55,000 | NW¼ Sec. 64, blk 35, H&TC Ry. Survey |
| Texas Pipe Line Co. | 1 | .. | 64,000 | W¼ Sec. 66, blk 35, H&TC Ry. Survey |
| T. & P. Coal & Oil Co. | 1 | .. | 80,000 | Sec. 5, GC&SF Ry. Survey |
| T. & P. Coal & Oil Co. | 1 | .. | 55,000 | Sec. 5, GC&SF Ry. Survey |
| **VAL VERDE COUNTY—** | | | | |
| Mid-Kansas O. & G. Co. | 25 | .. | 80,000 | Sec. 9, blk B-3, I&GN Ry. Survey |
| **WARD COUNTY—** | | | | |
| American Petroleum Co. | 10 | .. | 55,000 | W½ SE¼ Sec. 81, blk "F", GMMB&A Survey |
| American Petroleum Co. | 5 | .. | 80,000 | W½ SE¼ Sec. 81, blk "F", GMMB&A Survey |
| Independent O. & G. Co. | 2 | .. | 55,000 | SE¼ SW¼ Sec. 60, blk "F", GMMB&A Survey |
| Landreth Prod. Corp. | 10 | .. | 80,000 | S½ SE¼ Sec. 80, blk "A", GMMB&A Survey |
| Southern Pipe Line Co. | 18 | .. | 80,000 | Sec. 20, blk "F", GMMB&A Survey |
| Southern Pipe Line Co. | 3 | .. | 55,000 | Sec. 20, blk "F", GMMB&A Survey |
| Southern Pipe Line Co. | 1 | .. | 25,000 | Sec. 20, blk "F", GMMB&A Survey |
| Southern Pipe Line Co. | 1 | .. | 20,000 | Sec. 20, blk "F", GMMB&A Survey |
| Texon Oil & Land Co. | 5 | .. | 80,000 | S½ SE¼ Sec. 100, blk "F", GMMB&A Survey |
| Tonkawa Pet. Corp. | 1 | .. | 80,000 | S½ SE¼ Sec. 100, blk "F", GMMB&A Survey |
| **WINKLER COUNTY—** | | | | |
| American Petroleum Co. | 4 | .. | 80,000 | SE¼ Sec. 45, blk B-5, P. S. L. Survey |
| Atlantic Oil Prod. Co. | 15 | .. | 80,000 | NE¼ SE¼ Sec. 31, blk B-5, P. S. L. Survey |
| Gulf Production Co. | 20 | .. | 80,000 | NW¼ Sec. 34, blk B-5, P. S. L. Survey |
| Gulf Production Co. | 14 | .. | 80,000 | SE¼ Sec. 32, blk B-5, P. S. L. Survey |
| Humble Oil & Ref. Co. | 10 | .. | 64,000 | Sec. 8, blk B-12, P. S. L. Survey |
| Humble Oil & Ref. Co. | 2 | .. | 66,000 | Sec. 8, blk B-12, P. S. L. Survey |
| Independent O. & G. Co. | 2 | .. | 55,000 | E½ NW¼ Sec. 41, blk B-5, P. S. L. Survey |
| Independent O. & G. Co. | 1 | .. | 55,000 | W½ SW¼ Sec. 34, blk B-5, P. S. L. Survey |
| Magnolia Petroleum Co. | 1 | .. | 80,000 | W½ NE¼ Sec. 29, blk B-5, P. S. L. Survey |
| Magnolia Petroleum Co. | 7 | .. | 80,000 | N½ Sec. 6, blk B-11, P. S. L. Survey |
| Magnolia Petroleum Co. | 7 | .. | 55,000 | N½ Sec. 6, blk B-11, P. S. L. Survey |
| Prairie Oil & Gas Co. | 3 | .. | 55,000 | N½ Sec. 24, blk B-5, P. S. L. Survey |
| Pure Oil Company | 10 | .. | 55,000 | SE¼ Sec. 34, blk B-5, P. S. L. Survey |
| Roxana Petroleum Corp. | 7 | .. | 80,000 | N½ SW¼ Sec. 40, blk B-5, P. S. L. Survey |
| Roxana Petroleum Corp. | 2 | .. | 80,000 | S½ NE¼ Sec. 41, blk B-5, P. S. L. Survey |
| Southern Pipe Line Co. | 3 | .. | 55,000 | N½ NE¼ Sec. 6, blk B-12, P. S. L. Survey |
| Southern Pipe Line Co. | 14 | 6 | 80,000 | N½ Sec. 9, blk B-12, P. S. L. Survey |
| Skelly Oil Co. | 1 | .. | 55,000 | W½ SE¼ Sec. 40, blk 26, P. S. L. |
| Texon Oil & Land Co. | 3 | .. | 80,000 | SW¼ NE¼ Sec. 7, blk B-12, P. S. L. Survey |
| The California Co. | 5 | .. | 80,000 | E½ NE¼ Sec. 29, blk B-5, P. S. L. Survey |
| The California Co. | 1 | .. | 55,000 | E½ NE¼ Sec. 29, blk B-5, P. S. L. Survey |
| The California Co. | 2 | 1 | 60,000 | SE¼ NW¼ Sec. 32, blk B-5, P. S. L. Survey |
| The Texas Co. | 5 | .. | 80,000 | SW¼ Sec. 29, blk B-5, P. S. L. Survey |
| The Texas Co. | 1 | .. | 80,000 | NW¼ NW¼ Sec. 45, blk 26, P. S. L. Survey |
| The Texas Co. | 1 | .. | 80,000 | SW¼ SW¼ Sec. 40, blk 26, P. S. L. Survey |
| The Texas Co. | 1 | .. | 80,000 | SW¼ SW¼ Sec. 40, blk 26, P. S. L. Survey |
| The Texas Co. | 1 | .. | 80,000 | NE¼ SE¼ Sec. 40, blk 26, P. S. L. Survey |
| The Texas Co. | 1 | .. | 80,000 | SW¼ NW¼ Sec. 39, blk 26, P. S. L. Survey |

# End Your Belt Troubles




—WITH FEDERAL BELT CLAMPS which have "The curve on the clamp that FITS the crown on the pulley." Moulded rubber filler absorbs all blows and wear at the clamps. Corrugated clamps hold belt ends firmly.



—AND A FEDERAL-TURNBOW BELT STRETCHER enables one man to put on new belts or tighten old belts. Ratchet handle on main draw-screw. Curved corrugations on clamping members hold belt ends securely.

*At Your Supply Store*

# The FEDERAL SUPPLY Co.

FORT WORTH, TEXAS *Manufacturers* MEXIA, TEXAS

*Say you saw it in The OIL WEEKLY*

(Continued from page 116)

ern Crude Oil Purchasing Company et al has 1,570,700 barrels of stored oil, and is depending upon tank car shipments and local refineries to market this oil along with current production, unless a hookup is later made with one of the carriers with direct lines to distant refinery or export terminals. Prairie Oil & Gas Company is selling its current production to Humble Oil & Refining Company, but has 1,168,050 barrels backed up in Crane-Upton Counties because of being prorated until recently on its Church and Fields production. Prairie is opposed to making further additions to stocks, thus indicating little interest in invading this district with a pipe line outlet.

Marland Oil Company, Texon Oil & Land Company, Big Lake Oil Company, Independent Oil and Gas Company, Humble Oil and Refining Company and Reagan County Purchasing Company have pulled on their stocks in the West Texas district within the past two months to meet contracts and deliveries. Marland Oil Company, Independent Oil and Gas Company, Texon Oil and Land Company and Humble Oil and Refining Company have shut in production because of proration rules that would provide a large excess of crude, but are forced to pull on storage. Humble Oil & Refining Company has the greatest amount of idle tankage in the district, and at the close of June this company's stocks were reported at 1,465,200 barrels, and storage facilities at 3,610,000 barrels, leaving 2,144,800 barrels empty. This heavy tank building program was carried out by the company within the past three years in an effort to provide a market for a large percentage of the oil produced in each of the flush areas developed in Reagan, Upton, Crockett, Crane, Pecos and Winkler Counties. Humble Pipe Line Company has pioneered the pipe line market to each of the above counties, and spent large sums for tankage to aid the producers without market outlets, but has since increased its trunk line outlet to above 100,000 barrels daily, with a refinery at McCamey consuming from 18,000 to 20,000 barrels daily. This company's willingness to purchase oil and store same in field tankage when pipe line facilities were inadequate has saved independent producers in the above counties large sums of money for tankage, and if proration is continued it is doubtful if the company will have the opportunity to refill many of the tanks that are now empty.

Roxana Petroleum Corporation has erected 3,520,000 barrels of large tankage, including two 1,000,000 barrel concrete reservoirs at Monahans and McCamey, and at the close of June, total stocks amounted to 2,034,700 barrels, leaving 1,485,300 barrels. The Shell Pipe Line Company is pumping more oil from the district daily than Roxana Petroleum Corporation is capableof producing and buying with proration remaining in effect. Reagan County Purchasing Company is also a large owner of idle tankage, having 15 80's at its Kemper farm, near Big Lake field, with only 177,750 barrels of oil in storage. This tank farm was erected to handle Big Lake field oil contracted for purchase before the completion of the Humble Pipe Line Company's first line into West Texas, and after this line was completed Humble began taking the oil on contract until 1940.

### West Texas Steel Storage

Large steel tankage completed and building in the West Texas district on July 21, 1928, aggregates 43,419,000 barrels, of which 42,479,000 barrels are completed and 940,000 barrels are scheduled for completion in a few weeks. The distribution of the tanks over the 14 counties is shown below:

| Counties— | Gross Capacity, bbls. |
|---|---|
| Crane | 7,862,000 |
| Crockett | 55,000 |
| El Paso | 480,000 |
| Howard | 385,000 |
| Jones | 55,000 |
| Midland | 8,720,000 |
| Mitchell | 420,000 |
| Pecos | 783,000 |
| Reagan | 3,470,000 |
| Reeves | 55,000 |
| Upton | 4,009,000 |
| Val Verde | 2,000,000 |
| Ward | 3,990,000 |
| Winkler | 11,135,000 |
| Total | *43,419,000 |

*Roxana's two 1,000,000 barrel reservoirs not included in total.

## Drill For Gas

Artesia, N. M. — A joint test for natural gas will be drilled by Texas Production Company, the Amerada Petroleum Corporation and Columbia Carbon Company. It will be located in section 6-26-37. Recently the Amerada Petroleum Corporation and the Columbia Carbon Company purchased one-third, each, of The Texas Company's holdings in Southeastern Colorado. The Texas Production Company has a completed well with a production of 75 million cubic feet and the Marland Oil Company of Colorado has one in the same vicinity with a flow of about 90 million cubic feet. The Amerada and Columbia interests will start construction immediately of a carbon black plant that will utilize the supply of gas developed.

# Mexican Production Under Last Year

TAMPICO, Mexico — Production of petroleum in Mexico during the first six months of the present year can be placed at 26,952,179 barrels, a decrease when compared with the first six months of 1927 of approximately 6,000,000 barrels. The production can be divided as follows: Northern fields, heavy crude, 13,308,209; South fields, (Tampico-Tuxpam), light crude, 12,901,115; Isthmus of Tehuantepec, 742,855.

The wells completed during the period under discussion can be placed at 182, of which 68 finished in the producing column. In detail the well completions can be roughly divided as follows: South fields, proven areas, 21 failures, nine producers; wildcats, two failures, one producer. North fields, proven areas, 43 producers, 85 failures; wildcats, six failures, no producers.

In the Isthmus of Tehauntepec, Mexican Eagle Oil Company was the only active operator, and it scored 15 producers, ranging from one 19-barrel well at Tecuanapa to the best well of the period, No. 10 Teapa, a 500-barrel well of 40 gravity oil. Taken as a whole, these Isthmus wells averaged 255 barrels. There is no record in hand of the failures drilled in that sector.

In addition to the above figures, two wildcats in the State of Coahuila, owned by the Ohio Oil Company, are listed as uncompleted, but they are too deep at this writing to be optimistic over.

The one producing south fields wildcat is Mexican Eagle Oil Company's well in Mecatepec, north of the old Furbero pool, south of Tuxpam river. It was finished in January, officially reported an 8000-barrel well, but it is claimed that the well has a potential of say 20,000 barrels, or even more. Mexican Eagle, now a subsidiary of Royal Dutch Shell, owns all of this extensive Macatepec sector; and it has only recently commenced drilling another test there.

The wildcat failures credited to the northern district were finished principally in the state of Tamaulipas, most of them being located in the southern Canton of Altamira.

The subjoined table of production in the republic, by months (June is approximated), illustrates precisely the fall of the production curve.

Vessel movement of petroleum, crude fuel and refined (including some asphalt), for the six months period totaled 19,887,512 barrels, of which Tampico dispatched 18,402,521 barrels, and Tuxpam 1,484,991. The coastwise movement, included in these figures, totalled 1,883,604 barrels, some of which eventually was cleared for export.

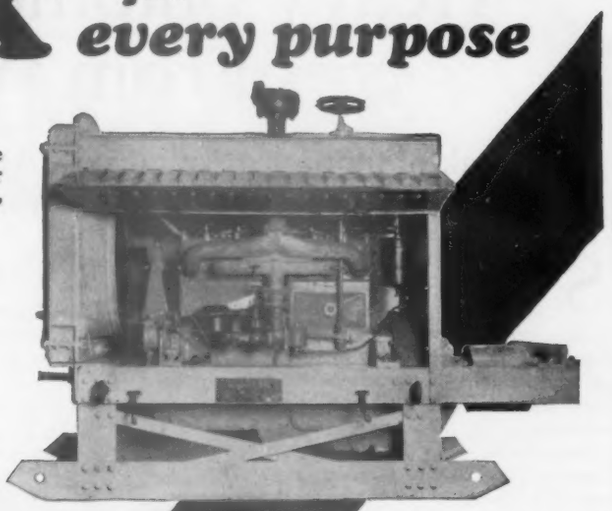
The United States received approximately 70 per cent. of the vessel movement, including all of the crude (principally heavy oil) cleared directly from the ports of primary clearance, Tampico and Tuxpam.

**Mexican Production for Six Months**

| January-June, inclusive, 1928 | |
|---|---|
| January | 4,769,845 |
| February | 4,474,341 |
| March | 4,732,200 |
| April | 4,593,562 |
| May | 4,352,231 |
| June (approximated) | 4,030,000 |
| Total | 26,952,179 |

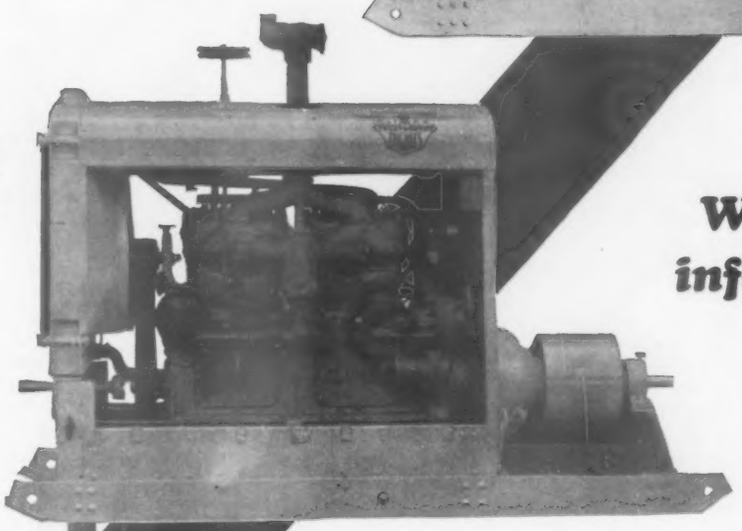
# A CLIMAX for every purpose

Climax Spudder Engine for handling all spudder drilling — water pumps, gathering pumps, etc.



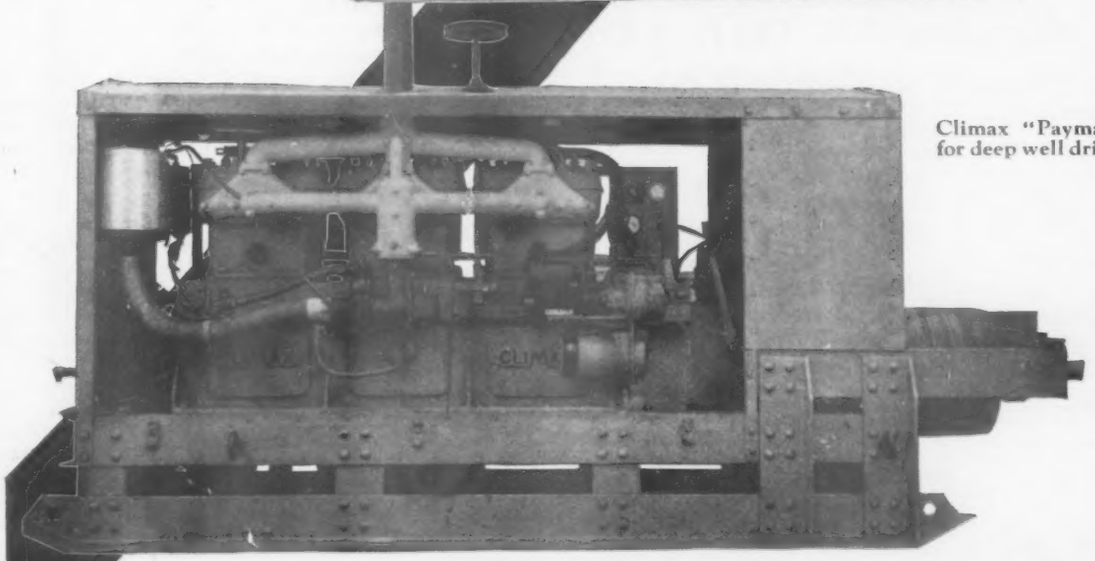
CLIMAX Trade Mark Reg. U. S. Pat. Off.

Climax "Paymaster" Junior for economical drilling on portable drilling rigs.



**Write for information**

Climax "Paymaster" for deep well drilling.



CLIMAX ENGINEERING COMPANY
75 West 18th Ave. Clinton, Iowa

DISTRIBUTED BY
**THE NATIONAL SUPPLY COMPANIES**

*Say you saw it in The OIL WEEKLY*

# Heavy Shipments in Tank Cars From West Texas

## Peak of movement reached in April when daily average reached 78,507 barrels daily; proration and pipe lines reducing quantities shipped

SAN ANGELO, Texas—Tank car movement of crude oil from the West Texas district to distant refining centers and export terminals has been closely associated with development of the various fields since the first oil area was opened in 1920, but this means of marketing the oil is now giving way to direct trunk lines and local refineries. During June the rail shipments of crude amounted to 1,903,415 barrels, or an average of 63,447 barrels daily. Rail shipments of crude from this district are greater than any other district in the country, and many thousand tank cars placed on the idle list after the passing of the flush period of the Smackover and Panhandle districts have been earning a mileage fee for their owners for the past year, or more, in handling West Texas crudes.

### Peak in April

The peak level on rail transportation of crude from West Texas was reached last April when a total of 2,357,220 barrels were loaded, making an average of 78,507 barrels daily. This figure was swelled by the movement of 235,775 barrels of storage oil from the Big Lake district to the Gulf Coast for delivery to Atlantic Coast refineries. Hendrick field accounted for 1,528,380 barrels of the above total, and 410,535 barrels was loaded from fields in Crane, Upton and Pecos Counties. Roxana shipped 610,510 barrels during this peak month, and Southern Crude Oil Purchasing Company was second with 514,425 barrels.

Enforcement of proration in the Hendrick field, effective May 5, 1928, has not materially reduced tank car shipments from this particular field, even though production restrictions cut the daily output almost 50 per cent. This is due to the large volume of oil sold on contract by Hendrick field producers over the rest of 1928 to distant refineries, and storage oil is being drawn upon to meet contract requirements. This accounts for the Hendrick field contributing 1,530,675 barrels to total tank car shipments during June. Completion of the Shell Pipe Line Company's McCamey-Healdton 10-inch trunk line about June 1 caused Roxana Petroleum Company's tank car shipments to drop to 135,575 barrels during June, as compared to the above high mark in April. Roxana shipped 90,500 barrels in tank cars during June to Texas City for tanker movement to the Beacon Oil Company and other Atlantic Coast plants, and loaded 45,075 barrels for delivery to its Woodriver, Illinois, plant.

Southern Crude Oil Purchasing Company is the largest user of tank cars for marketing West Texas crude, and will continue to make heavy shipments as long as a wide price difference exists on this crude as compared to Mid-Continent oils. This company is credited with having loaded 486,900 barrels during June, and 273,400 barrels of this amount was dispatched to Standard Oil Company of Indiana's plants in Illinois, Indiana and Missouri. Southern Crude Oil Purchasing Company is affiliated with the latter company. The remainder of Southern's tank car shipments are being applied against contracts held with the Chalmette Petroleum Corporation, Chalmette, Louisiana; Liberty Oil Company, and the San Angelo Refining Company, San Angelo, Texas.

### The Texas Company Shipments

The Texas Company was listed as a big shipper of West Texas crude in tank cars during June, but this is due to the recent purchase of the properties of the Land-

## West Texas Tank Car Shipments

Tank car shipments of crude oil during June, 1928, from West Texas fields to interior refining centers and Gulf Coast export terminals are listed below, showing name of shippers and source of crude supply by counties:

| | Winkler | Crane-Upton | Reagan | Fisher | Loving | Runnels | Totals |
|---|---|---|---|---|---|---|---|
| South'n Crude O. Pur. Co. | 452,550 | 34,350 | .... | .... | .... | .... | 486,900 |
| American Pet oleum Co... | 456,650 | .... | .... | .... | .... | .... | 456,650 |
| The Texas Company .... | 271,100 | 44,415 | .... | 10,515 | .... | .... | 326,030 |
| Independent O&G Co. .. | 214,800 | .... | .... | .... | .... | .... | 214,800 |
| Roxana Petroleum Corp... | 135,575 | .... | .... | .... | .... | .... | 135,575 |
| Big Lake Oil Company .. | .... | .... | 143,215 | .... | .... | .... | 143,215 |
| Humble O&R Co. . ..... | .... | 119,925 | .... | .... | .... | .... | 119,925 |
| Orient Oil Op. Co. ..... | .... | 8,695 | .... | .... | .... | .... | 8,695 |
| Reagan County Pur. Co .. | .... | .... | 5,000 | .... | .... | .... | 5,000 |
| Lockhart & Co. . ..... | .... | .... | .... | .... | 4500 | .... | 4,500 |
| Vacuum Oil Co. . ..... | .... | .... | .... | .... | .... | 2125 | 2,125 |
| Totals ..... | 1,530,675 | 207,385 | 148,215 | 10,515 | 4500 | 2125 | 1,903,415 |

## West Texas Tank Car Racks

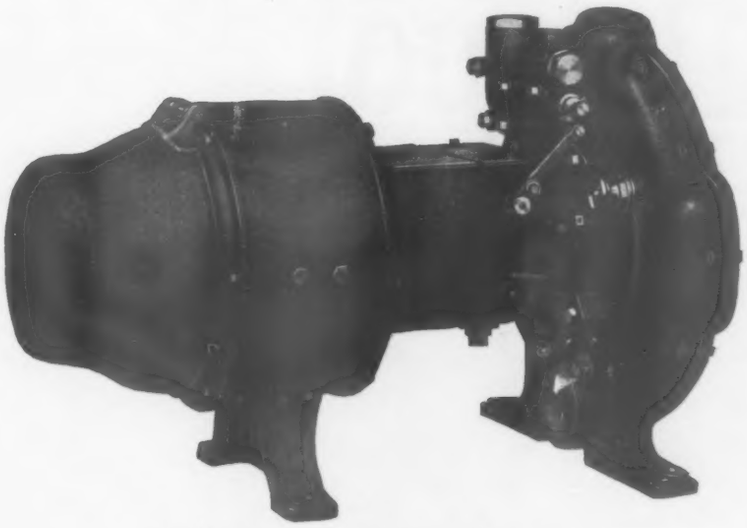
Tank car racks in use and those available for the loading of crude oil in the West Texas district are listed below by counties, showing the owners, car capacity and exact location of each rack:

| Rack Owner | Railroad Point | Capacity in Cars | Location |
|---|---|---|---|
| **FISHER COUNTY** | | | |
| The Texas Company | Royston | 5 | Sec. 6 W. E. Richardson Sur, Blk. "R" |
| **HOWARD COUNTY** | | | |
| Marland Pipe Line Company | Coahoma | 10 | Sec. 43 Blk. 30, T&P Ry. Sur., T-1-N |
| **JONES COUNTY** | | | |
| Phillips Petroleum Company | Trent | 10 | Sec. 36, Blk. 19, T&P Ry. Survey |
| **MIDLAND COUNTY** | | | |
| Gulf Production Company | Midland | 50 | Sec. 41, Blk. 38, T&P Ry. Survey |
| Midland Refining Company | Midland | 10 | Sec. 42, Blk. 38, T&P Ry. Sur, T-2-S |
| **MITCHELL COUNTY** | | | |
| Col-Tex Refining Company | Colorado | 30 | Sec. 42, Blk. 26, T&P Ry. Survey |
| **REAGAN COUNTY** | | | |
| Big Lake Oil Company | Texon | 40 | Sec. 1, Blk. 2, University Lands |
| Reagan County Purchasing Co. | Kemper | 15 | Sec. 11, Blk. 11, University Lands |
| **REEVES COUNTY** | | | |
| Lockhart Brothers et al | Arno | 5 | Sec. 38, Blk. 2, H&GN Survey |
| Skelly Oil Company | Pecos | 80 | Sec. 68, Blk. 4, H&GN Ry. Survey |
| **RUNNELS COUNTY** | | | |
| Vacuum Oil Company | Benoit | 10 | Sec. 161, ET Ry. Co. Survey |
| **UPTON COUNTY** | | | |
| Gulf Production Company | Hurdle | 50 | Sec. 2, GC&SF Ry. Survey |
| Humble Oil & Refining Company | McCamey | 50 | Sec. 65, Blk. 35, H&TC Ry. Survey |
| Humble Pipe Line Company | McCamey | 50 | Sec. 65, Blk. 35, H&TC Ry. Survey |
| Marland Pipe Line Company | McCamey | 40 | Sec. 66, Blk. 35, H&TC Ry. Survey |
| Mid-Kansas Oil & Gas Company | Hurdle | 30 | Sec. 19, Blk. 1, MK&T Ry. Survey |
| Orient Oil Operating Company | Hurdle | 5 | Sec. 3, GC&SF Ry. Survey |
| Roxana Petroleum Corporation | McCamey | 50 | Sec. 12, TC Ry. Survey |
| Southern Pipe Line Company | McCamey | 72 | Sec. 65, Blk. 35, H&TC Ry. Survey. |
| The Texas Company | McCamey | 30 | Sec. 66, Blk. 35, H&TC Ry. Survey |
| **WARD COUNTY** | | | |
| American Petroleum Company | Pyote | 50 | Sec. 81, Blk. "F," GMMBA Survey |
| Blue Bonnet O. & R. Company | Wickett | 35 | Sec. 21, Blk. "F," GMMBA Survey |
| Humble Pipe Line Company | Monahans | 40 | Sec. 61, Blk. "A," GMMBA Survey |
| Independent Oil & Gas Company | Pyote | 79 | Sec. 60, Blk. "F," GMMBA Survey |
| The Texas Company | Monahans | 40 | Sec. 80, Blk. "A," GMMBA Survey |
| Roxana Petroleum Corporation | Monahans | 60 | Sec.. 41, Blk. "A," GMMBA Survey |
| Southern Pipe Line Company | Wickett | 72 | Sec. 20, Blk. "F," GMMBA Survey |
| Texon Oil & Land Company | Pyote | 34 | Sec. 100, Blk. "F," GMMBA Survey |

# PERFORMANCE

**is the**

## *Real Test*



**MOON Type 6 Turbo Generators**
**3 and 4 KW**

There is one real yardstick with which to measure the value of any oil country equipment—and that is "actual performance."

The remarkable record of the Moon Type 6 Turbo Generators in such fields as Seminole, West Texas, and El Dorado, has demonstrated their right to the high position they hold in the oil country.

In Seminole, one prominent drilling contractor put 11 of them into operation after seeing the results of his first one. Another contractor had 10 on his different jobs before he got through. And so on down the line.

Due to its unique 4 steam nozzle arrangement, this generator possesses unusual flexibility under varying steam pressures, and can be operated with either high or low boiler pressures by opening or closing two of the nozzles to suit the occasion. This, together with the ease with which it handles the varying loads, has convinced contractors and operators that here is the logical generator for their larger lighting requirements.

There is no question about it—"Performance is the Real Test."

*We carry Moon Generators in stock for immediate delivery.*

**Republic Supply Company**

GENERAL OFFICES - HOUSTON, TEXAS

OIL AND GAS WELL SUPPLIES

ROTARY AND CABLE TOOLS

*Say you saw it in The OIL WEEKLY*

reth Production Corporation and assuming contracts made some months ago by the latter with Louisiana plants. The American Petroleum Company, which is the crude purchasing and transportation subsidiary of the Republic Production Company, was the second largest user of tank cars for marketing West Texas crudes during June, having averaged 15,222 barrels daily, with largest consignments going to Shreveport, Houston and El Paso refineries on contracts.

Small pools in Runnels and Loving Counties are the only oil areas in West Texas of any consequence that are dependent entirely on tank car shipments for a market outlet, and both of these are within reach of a direct pipe line connection should production justify the expense. However, these two counties are producing the best grade of oil found in the district, and the oil is being refined by the owners of the production.

## Water, Gas and Corrosion Combine to Make Work Difficult in West Texas

(*Continued from page 62*)

other hand there are operators in these fields doing what has often been said impossible, using the untreated gas in engines and compressors, for example. One operator in the Church and Fields district is running his air plant on untreated gas and he claims that by not trying to develop more than from 50 to 60 per cent capacity, all he has needed so far, he is able to get by without any trouble. There are many gas engines in this field using untreated gas.

Refiners are beginning to find that the West Texas crude is not as bad as has been suggested. One plant operator stated that he had been operating on Winkler County crude for several months and that he prefers this oil to North Texas crude, especially since the Winkler crude has anti-knock properties which offset the sulphur content.

Scattering experiments are being conducted to try to overcome corrosion where it is worst: Galvanized tubing and sucker rods are being tried out in the Powell field and also in the Church and Fields area. Warner-Quinlan has strings of galvanized wrought iron tubing in four wells in the Church and Fields pool and believe the tubing is standing up well. One string has been in service for more than five months without showing any appreciable deterioration. One well on this lease is equipped with galvanized sucker rods but they have not been installed long enough to make an estimate on what they will do.

One operator is now trying out concrete bottoms in his field storage tanks. The bottoms were first coated with a heavy asphalt paint and then a three-inch concrete bottom poured in. The Big Lake Oil Company, Reagan County, in its gasoline plant, has also put concrete linings entirely in one tank in its gasoline treating plant to test the effectiveness of concrete when subjected to gasoline made from the sulphur-bearing crude.

A tank manufacturer has also installed a solid aluminum gunbarrel tank in the Church and Fields-McElroy district to test the action of the crude on aluminum. Along with this tank is another with rings of aluminum, steel, and other alloys, and it is hoped to get much comparative information from the second tank when the experiment is completed.

It is also understood that one of the engine manufacturers is soon to introduce a new engine with a special alloy cylinder said to be adapted to conditions such as prevail in West Texas. It has not been possible to check this information however.

### Undeveloped Fields

The West Texas district includes several other fields including: the Powell field, Crockett County; the Westbrook field, Mitchell County; the Wheat Field, Loving County; McMillan field, Runnels County, and the Royston pool, Fisher County. All of these are practically dormant and few of them have had any development to speak of.

### Reagan County

No story of West Texas would be complete without something on the Big Lake Field, Reagan County, for this field marks the discovery of oil in West Texas and turned the eyes of the industry in that direction. The field stands today as a monument to the industry both for what it is and for the way in which it has been developed.

Fortunately the field is controlled by two companies, The Big Lake Oil Company and the Texon Oil and Land Company, and unit development has been followed from the beginning.

The field has been drilled generally on the basis of one well to every 10 acres. It is estimated that five more years will be required for its complete development, and the total number of wells necessary to drain the sand will not run much higher than 400.

The field is now practically electrified.

The highest daily average output of the field has been slightly above 40,000 barrels. Because the output has constantly been controlled, Reagan County crude has always brought a higher price than other West Texas oil. The current price is about $1.12 against 60 cents for other West Texas crude. Of course this is a contract price, but the contracts were secured on the basis of controlled output.

During 1926 Reagan County crude brought $2.55, the highest price it has ever commanded.

The sulphur content of the crude has always been low and is decreasing as the field gets older.

Within 24 hours after the oil is produced it is a pipe line product. It is treated with chemical and has to be heated to about 82 degrees in the winter. The crude averages 37 gravity.

Approximate productive area of the field is 3750 acres. There are about 207 producing wells, and the present yield is about 19,000 barrels daily.

The Big Lake field was discovered in May, 1923.

## Will Pay Navy When Production Increases

Casper, Wyo. — Ohio Oil Company has made an agreement with the Navy Department whereby the former agrees to pay the latter 20 per cent. of any increase in production shown in its two wells, Nos. 3 and 5, Salt Creek field, which offset the Navy's wells, Nos. 203, and 204, Section 29-39-78, Wyoming, as a result of the Navy's shutting down and maintaining in an inoperative status the two Navy wells.

There are clauses in the agreement which provide that no payment shall be made on any such increased production until the production from the Ohio wells shall have been paid for all development, production, and other proper charges against said wells, including royalties and bonuses paid to the Interior Department and any other royalties paid under valid arrangements in existence upon the date of the agreement; also that no payments shall be made on any well when its average daily production during any month does not exceed 10 barrels per day during the time it is on production. The present average daily production of each of the two Ohio wells is approximately five barrels per day.

## Oxford Loses

Oxford, Kan. — Oxford field produced a daily average of 10,490 barrels during the week ending July 19, registering a loss of 780 barrels in daily yield during the week. There are 95 producers, 53 of which are owned by Roxana Petroleum Corporation, and Roxana production during the week averaged 3949 barrels daily.

Churchill field, four miles north of Oxford, with 73 wells, had a daily output of 9741 barrels during the week, a decline of 100 barrels. Roxana had 8943 barrels of this production from 63 wells.

# Athey's *are* Built *for* Tough Hauls!

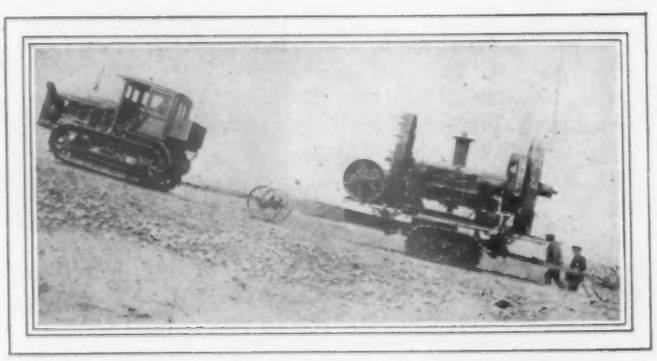
One of the users of Athey Truss Wheel Wagons kept careful comparative records for three months of the loads carried by ordinary round wheel equipment as against loads carried by Athey Wagons.

He found that with the same hauling equipment under identical conditions, ATHEYS HAULED 76% GREATER LOADS DAILY WITH LESS TRACTIVE POWER.

That's why ATHEYS are used on the tough hauls. They haul capacity loads, rain or shine, every day, regardless of actual road conditions—through deep mud, and soft going where round wheel equipment cannot operate.

ATHEYS are the modern means for economical hauling. Write for complete information.

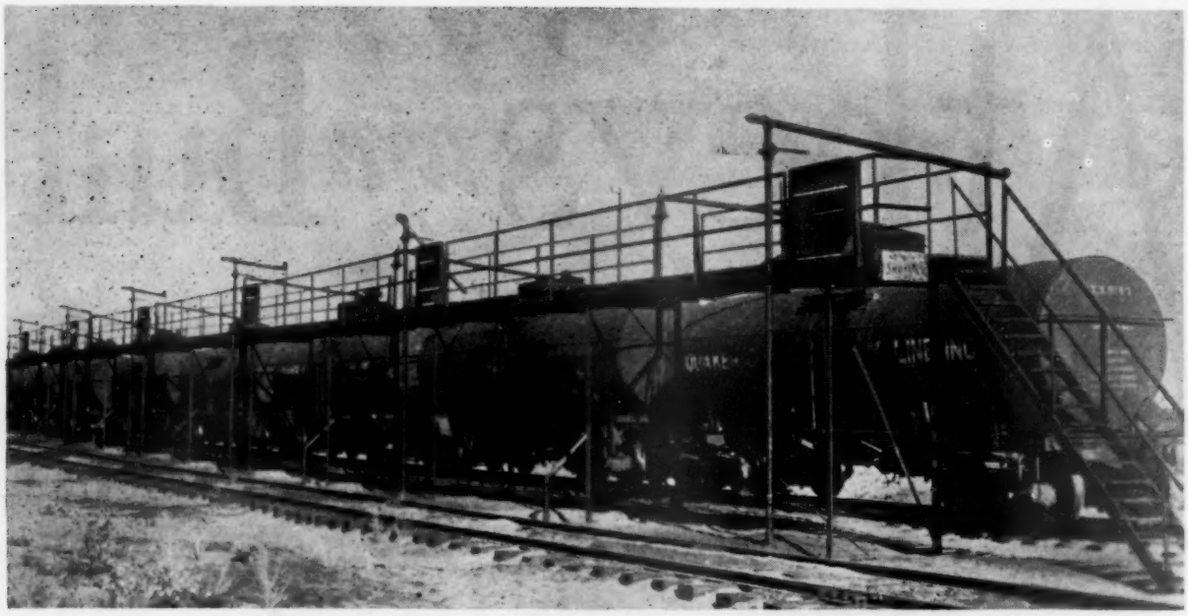
ATHEY TRUSS WHEEL CO.
130 N. Wells St., Chicago, U. S. A.
*Cable Address:* "Trusswheel, Chicago"
The Baldwin Locomotive Works, Foreign Representatives, Philadelphia, Pa.



*This scene shows the same train going up a sharp up grade. That's when the light running qualities of Athey Wagons pay heavy dividends.*

**ATHEY TRUSS WHEEL WAGON**
IT BRIDGES THE SOFT SPOTS

*Say you saw it in The OIL WEEKLY*



*Independent Oil & Gas Company's Loading Rack at Monahans*

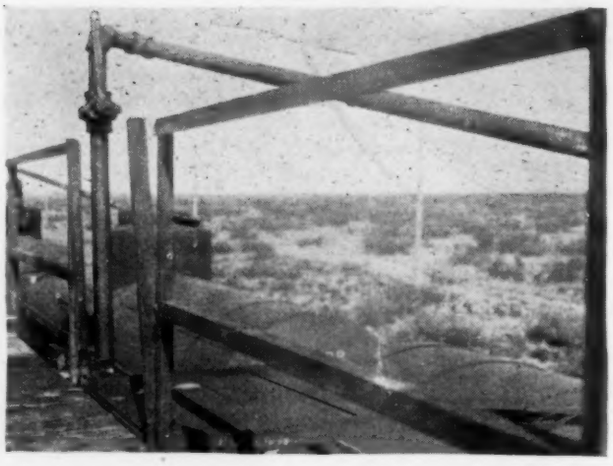
# Crude Shippers Make Advances in Rack Construction

By A. R. McTEE
*Staff Representative*

A FORWARD step in building a fire - proof loading rack has been taken by the Independent Oil and Gas Company at Monahans, Texas. The rack serves the Hendrick pool, Winkler, and is as near fire-proof as human ingenuity could make it.

With the exception of the floor, the rack is all-steel. Since the area of the floor is relatively small and the rack is so well provided with fire extinguishers, there is very little danger of a fire ever occurring.

No expense was spared in designing the rack to make it come up to the standard required.



*Safety Door Platform*

It accommodates 80 tank cars and has a capacity of about 1900 barrels per hour. Loading is by gravity through a 12-inch line. This line is located on one side of the rack and the cars are fed by risers offsetting each other on both sides.

All electrical switches are housed in a building about 50 feet from the rack. The light poles which carry the flood lights for the entire length of the rack are also set back 50 feet. Fowerful lights are used giving plenty of light to facilitate loading at night.

Loading is through tin spouts. When not in use these spouts rest on spout hooks built along the side of the rack. This feature keeps the floor relatively clean since the small amount of waste oil drains to the ground instead of on the floor as is the case where the loading spout or hose is allowed to rest on the floor when the rack is not in use.

Having the risers located on the side of the rack keeps the center clear, giving more space to attendants and enables faster work in case of emergency. The fire extinguishers can be wheeled the entire length of the rack within a few minutes.

Fire-fighting equipment is housed in the dog-house which is built of galvanized iron.

Three ladders serve the rack; one in the center near the dog house and one at each end.

The framework consists of steel of the following dimensions: cross-arms, two by two by three - sixteenths inches; risers, three by three by one-fourth inches; beams, four by three and one-fourth inches; side supports, 10 feet in height by 11⅜ inches. The upright supports are tied together at the bottom and are set on heavy timbers bedded in the ground. The cross-arms brace the rack and give it ample strength.

Merco-Nordstrom valves are used on the risers.

A special feature of the rack is the drop doors which enable the operator to walk out to the tank car domes. The doors are hinged and are equipped with weights to raise them automatically. It is necessary to give the door a slight pull only when it is ready to be raised. When the rack is not in use the doors fold up in line with the sides.

The floor is made up of two by twelve inch boards.

Asphalt paint is used on all the steel framework of the rack.

Aside from the fire-proof feature, the rack has practically 100 per cent salvage value.

FAST — VERTICAL BOOM — OVERLOAD RELEASE — COMPACT

# NO APOLOGIES AND NO HIGH COSTS

TO prove that no Barber-Greene coughs apologetically and calls for pick and shovel help on anything at all diggable — we cite the many instances of tough digging detailed in "Ditching Snapshots and Records."

To prove that such a ditcher earns new profits, even on digging ordinarily turned over to picks and shovels, we cite the cost records listed in the same book.

*There is Both Progress and Profit in Barber-Greene Ditching*

To illustrate why the Barber-Greene is able to do these things, which other ditchers cannot, we point to the Vertical Digging Boom and its milling action digging and to the Automatic Overload Release which protects the ditcher against underground hazards.

A copy of "Ditching Snapshots and Records" will be sent on request — without obligation, of course.

Barber-Greene Company, 615 West Park Ave., Aurora, Illinois

Vertical Boom Barber-Greene DITCHER

Four to Seven Feet Maximum Depths
Standard Widths: Eighteen to Twenty-four Inches
Also, Conduit and Curb and Gutter Specials

*Say you saw it in The OIL WEEKLY*

# West Texas Production

## WINKLER COUNTY

| | Producing Wells. | Daily Average Prod. |
|---|---|---|
| **Hendrick Field—** | | |
| Roxana Petroleum Corporation | 27 | *21,090 |
| Southern Crude & R. A. Westbrook | 28 | *18,915 |
| Pure Oil Company | 21 | *15,585 |
| Humble Oil & Refining Company | 29 | *14,565 |
| Atlantic & Collett-O'Keefe | 7 | *13,500 |
| Atlantic Oil Producing Company | 22 | *13,425 |
| Gulf Production Company | 15 | *12,090 |
| Roxana & The Texas Company | 17 | *11,435 |
| Skelly Oil Company | 5 | *9,645 |
| Republic Production Company | 8 | *8,390 |
| Cranfill & Reynolds, Inc. | 6 | *8,075 |
| Southern Crude & Dixie Oil Company | 21 | *7,740 |
| Independent Oil & Gas Company | 15 | *5,700 |
| Texon Oil & Land Company | 6 | *4,605 |
| Marland Production Company | 4 | *4,370 |
| Murchison & Cranfill Bros. Oil Company | 6 | *2,360 |
| Prairie Oil & Gas Company | 2 | *1,915 |
| The California Company | 8 | *1,910 |
| Magnolia Petroleum Company | 8 | 1,335 |
| Winkler Oil Prod. Corporation | 1 | 490 |
| Atlantic & Kessler-Logan | 1 | 300 |
| Total | 258 | 177,440 |

## CRANE COUNTY

| | | |
|---|---|---|
| **Church & Fields—** | | |
| The Texas Company (was Landreth) | 16 | 7,225 |
| Simms Oil Co. & Atlantic Oil Prod. Co. | 31 | 6,540 |
| Prairie Oil & Gas Company | 12 | 4,280 |
| Magnolia Petroleum Company | 33 | 4,130 |
| Warner Quinlan Co. of Texas | 27 | 4,090 |
| Tidal Oil Co. & Turman-Maxwell | 25 | 4,030 |
| Humble Oil & Refining Company | 14 | 3,060 |
| Gulf Production Company | 11 | 1,500 |
| Independent Oil & Gas Company | 7 | 1,320 |
| The Texas Company | 3 | 505 |
| Church-Fields et al | 2 | 205 |
| T. P. Coal & Oil Company | 1 | 60 |
| Stidham & Thrasher | 1 | .. |
| Total | 183 | 36,950 |
| **Gulf-McElroy—** | | |
| Gulf Production Company | 62 | 14,730 |
| **Gulf-Waddell—** | | |
| Gulf Production Company | 1 | 15 |
| **Marland-Hughes—** | | |
| Marland Production Company | 14 | 440 |
| The Texas Company | 9 | 150 |
| C. C. Duffey et al | 1 | 95 |
| McMan Oil & Gas Company | 2 | 55 |
| Total | 26 | 740 |
| Totals for Crane County | 272 | 52,435 |

## REAGAN COUNTY

| | | |
|---|---|---|
| **Big Lake Field—** | | |
| Big Lake Oil Company | 135 | 14,370 |
| Texon Oil & Land Company | 79 | 3,975 |
| Skelly Oil Co. and Utah-Southern | 1 | 35 |
| The California Company | 1 | 15 |
| Total | 216 | 18,395 |

## PECOS COUNTY

| | | |
|---|---|---|
| **Yates Field—** | | |
| Mid-Kansas-Transcontinental Oil Co. | 79 | *24,115 |
| The California Company | 30 | *15,165 |
| Simms Oil Company | 7 | *6,765 |
| McMan O&G Co. and Marland Prod. Co. | 17 | *5,570 |
| McMan Oil & Gas Company | 7 | *4,020 |
| Gulf Production Company | 19 | *3,670 |
| Gulf Prod. Co. (Crockett Co.) | 3 | *185 |
| Roxana Petroleum Corporation | 16 | *3,095 |
| Humble Oil & Refining Company | 13 | *2,975 |
| Oil Operators Trust and A. T. Herd | 7 | 1,545 |
| Marland Production Company | 10 | 580 |
| Red Bank Oil Company | 3 | *80 |
| Mazda Oil Corp. and Savoy Oil Co. | 2 | *230 |
| Kirby Pet. Co. and Edson Pet. Co. | 1 | 200 |
| Grayburg Oil Co. and T. T. Word | 3 | 125 |
| Skelly Oil Company | 1 | 120 |
| Phillips Petroleum Company | 1 | 100 |
| Kirby Petroleum Company | 1 | 50 |
| Matador Oil Company | 1 | 50 |
| Cosby Drilling Company | 1 | 30 |
| Dixie Oil Co. (Crockett Co.) | 1 | 20 |
| Total | 233 | 68,690 |

(*) Production partially pinched.

## HOWARD COUNTY

| | | |
|---|---|---|
| **Chalk-Roberts Field—** | | |
| Magnolia Petroleum Company | 51 | *1,270 |
| Marland Production Company | 37 | 1,080 |
| F-H-E- Oil Co. and Moody Corporation | 5 | *565 |
| Pure Oil Company | 6 | 315 |
| Bristow & Merrick | 7 | 210 |
| Godley Oil & Gas Company | 4 | 205 |
| Sweeney & Henry et al | 3 | 200 |
| Marland Prod. Co. & Group No. 1 Oil Co. | 4 | 185 |
| Owen-Sloan Corp. & Cosden & Co. | 4 | *175 |
| F-H-E Oil Company | 4 | 175 |
| Coyle-Concord Oil Co. | 5 | 155 |
| Greene Oil & Refining Co. | 1 | 150 |
| Merrick & Lamb | 3 | 160 |
| Tate-Tubbs & Bert Weekly | 4 | 125 |
| Lockhart & Co. | 7 | 115 |
| Roxana & Vitek Oil Company | 2 | 75 |
| Gulf Production Company | 4 | 65 |
| Mid-West Exploration Company | 2 | 40 |
| Ward Oil Company | 1 | 35 |
| Tidal Oil Company | 2 | 30 |
| Comet Pet. Company | 2 | 20 |
| Weekly Oil Corp. et al | 1 | 20 |
| Humble Oil & Ref. Co. | 2 | 15 |
| J. S. Cosden & Co., Inc. (was Lockhart) | 1 | *.. |
| Schermerhorn Oil Co. | 1 | *.. |
| Total | 163 | 5,385 |

## MITCHELL COUNTY

| | | |
|---|---|---|
| The California Company | 100 | 2,200 |
| Magnolia Petroleum Co. | 22 | 430 |
| Eastland Oil Co. et al | 9 | 190 |
| Atlantic Oil Prod. Co. | 8 | 170 |
| Tidal Oil Company | 2 | 30 |
| Fred Carey et al | 1 | 15 |
| Total | 142 | 3,035 |

## UPTON COUNTY

| | | |
|---|---|---|
| **McCamey Field—** | | |
| Texas Pacific Coal & Oil Co. | 17 | 1,825 |
| Dixie Oil Company | 39 | 1,475 |
| Roxana Petroleum Corp. | 34 | 1,440 |
| Marland Production Company | 60 | 1,285 |
| Humble Oil & Refining Co. | 11 | 1,190 |
| Gulf Production Company | 15 | 1,055 |
| Prairie Oil & Gas Co. | 8 | 770 |
| The Texas Company | 22 | 725 |
| Independent Oil & Gas Co. | 20 | 635 |
| Champlin Refining Co. | 3 | 295 |
| Amerada Petroleum Corp. | 6 | 255 |
| Orient Oil Operating Co. | 2 | 220 |
| Sun Oil Company | 10 | 145 |
| Snowden & McSweeney | 2 | 115 |
| L. H. Wentz Oil Corp. | 3 | 110 |
| Republic Production Co. | 6 | 95 |
| Tidal Oil Company | 3 | 60 |
| Bryant & Atlantic Oil Prod. Co. | 2 | 30 |
| Atlantic Oil Producing Co. | 1 | 30 |
| Simms Oil Company | 3 | 30 |
| Pure Oil Company | 1 | 25 |
| Texon Oil & Land Co. | 1 | 20 |
| McMan Oil & Gas Co. | 2 | 15 |
| White Eagle Oil & Ref. Co. | 1 | 5 |
| Total | 272 | 11,850 |

## JONES COUNTY

| | | |
|---|---|---|
| Phillips Petroleum Co. | 16 | 1,125 |
| Hucony Gas Co. & Atkinson et al | 1 | 370 |

(Continued on page 130)

# Texon Oil & Land Company

Group No. 1 Oil Corporation

Group No. 2 Oil Corporation

**Texon Oil & Land Company of Texas**

New Oil Properties
Producing but Undeveloped
Solicited

# "Watch Us Grow"

Communicate With Us Upon Completion
of New Production
If Assistance Is Needed or Sale Desired

**Producers of High Grade Crude Oil**
**Discoverers of the Big Lake, Reagan County, Field**

**GENERAL OFFICES**
**at**
**SANTA RITA, TEXAS**

*Mail Address:* Big Lake, Texas

*Wire Address:* Santa Rita, Texas

## West Texas Production

(*Continued from page* 128)

| | Producing Wells | Daily Average Prod. |
|---|---|---|
| Marland Production Co. | 3 | 275 |
| Robert Oil Corp. & Cosden & Co. | 1 | 130 |
| Mid-West Exploration Co. | 5 | 125 |
| Rhodes & Higher, et al | 1 | 55 |
| Hutson-R. M. Weaver et al | 1 | 50 |
| Stebbins O&G Co. & Roeser-Pendleton | 2 | 30 |
| Total | 30 | 2,160 |
| **CROCKETT COUNTY** | | |
| Humble & Marland Prod. Co. | 14 | 370 |
| Taylor-Link Oil Co. & Kirby Pet. Co. | 2 | 570 |
| Cushing Refining & Gas Co. | 2 | 245 |
| Gulf Production Co. | 6 | 205 |
| E. L. Smith Oil Co. | 5 | 165 |
| Pecos Oil Company | 4 | 115 |
| Republic Production Co. | 2 | 110 |
| C. A. Jones et al | 1 | 25 |
| Roxana Petroleum Corporation | 1 | 15 |
| Total | 37 | 1,820 |
| **FISHER COUNTY** | | |
| Sinclair Oil & Gas Co. | 1 | 495 |
| The Texas Company | 1 | 105 |
| Cranfill-Reynolds & Sun Oil Co. | 1 | 45 |
| Total | 3 | 645 |
| **LOVING COUNTY** | | |
| Lockhart & Co. et al | 4 | 130 |
| **RUNNELS COUNTY** | | |
| Vacuum Oil Co. et al | 2 | 135 |
| **SCURRY COUNTY** | | |
| The Northwest Co. | 5 | 40 |
| **ECTOR COUNTY** | | |
| Texas Co. & Cosden & Co. | 2 | 10 |
| Total for all fields | 1639 | 342,170 |

## Make Wilcox Sand Test in Allen Field

Tulsa—Interest is being manifested in a Wilcox sand project being started in Allen field of Pontotoc County by Westheimer & Daube in Millner 4, in the southwest of the southeast of the southeast of Section 8-5-8. This well had a hole full of water in the Cromwell sand at 2720-38 feet, and it was after this failure that decision was made to make a Wilcox test of the hole.

T. B. Slick's Sillah 1, in the southwest of Section 12-7-5, Seminole County, east of Allen field, was estimated good for 25,000,000 cubic feet of gas from 2621-30 feet. Rock pressure in the well was 925 pounds on completion late last week, and it was being shut in for a gas well.

The American Oil & Refining Company's Lunsford 1, in the southwest of the northeast of the southeast of Section 22-5n-6e, west of Allen field, Pontotoc County, had a hole full of sulphur water in Wilcox sand at 3297-3342 feet July 18, and was being plugged.

An interesting failure of the past week was made by Shaffer et al's Jones 1, in the southwest of the northeast of Section 18-10-7, east of Searight field, Seminole County. It had Wilcox sand at 4705 feet, and after drilling in five feet filled with salt water.

## Work on Texas Pipe Line Loop Progressing

Tulsa. — Looping of the eight-inch pipe line of the Texas Pipe Line Company from Dallas to Waxahachie in North Texas now under way is being done by Sheehan Pipe Line Construction Company of Tulsa. R. J. Sheehan, president of the company, is in Dallas supervising the completion of the project which extends a distance of 32 miles.

This loop will be welded and the pipe used is the new oil line pipe manufactured by the A. O. Smith Corporation of Milwaukee. This pipe is made in 30-foot lengths and is shipped on flat cars, double jointed, extending 60 feet across the flat cars. This pipe is bell spigot jointed similar to cast iron water pipe.

The looping of the Dallas to Waxahachie line is included in the extensive pipe line building program recently announced by The Texas Company which also includes the construction of a line from their recently acquired West Texas properties to the Gulf where connections will be made with its main trunk line system.

## Moving Seven Rigs to Oregon Basin

Cody, Wyo.—S. C. Ferdig, who controlls the operations of Cody Petroleum Company and other operators in the Oregon Basin field, has shipped seven drilling outtfits from the Kevin-Sunburst field in Montana to the Oregon Basin field in Northern Wyoming. This indicates his intention of starting an intensive drilling campaign here.

## Meadow Creek Structure

Pocatello, Ida. — California Company reports slow progress at its test 18 miles east of here, Section 33-3n-4le, on Meadow Creek structure. At present it is drilling in hard grey limestone at 400 feet or thereabouts. This test is equipped with a heavy California drilling outfit and will drill to 5250 feet if necessary for a thorough test.

---

Tulsa—Mitchell et al's Root 1, in the northeast of the northwest of the southeast of Section 32-28n-1w, Blackwell area, topped the Mississippi chat at 3411 feet, the Mississippi lime at 3422, chatty shale at 3441 and Wilcox sand at 3457 feet. After drilling in Wilcox seven feet a small show of oil and gas was had and the hole filled 1800 feet with water. Preparations were being made to go to the second Wilcox break.

**Inert Gas Used to Reduce Fire Hazard on Tanks**

(Continued from page 68)

same purpose, which may be done just as effectively and with less cost. The volume of gases to be handled by each fan is controlled by a series of dampers. Republic recording carbon dioxide indicating instruments give a permanent record of $CO_2$ content of the gases leaving the bubble cap, or final washing section. The temperature of the gases leaving he bubble cap chamber varies from 100 to 105 degrees Fahrenheit. Records of one run at McCamey indicate a $CO_2$ centent of the gases going to the tank of nine to 12 per cent. It is said that by providing a mixture of gases in the tank containing as much as seven per cent. carbon dioxide, that such a mixture is non-combustible.

Two Goulds, No. 3, centrifugal pumps, driven by a 15 horsepower General Electric motor circulates the water required for the system. One pump handles water from the basins over the Fluor redwood cooling tower, and the other pumps the cooled water from the cooling tower basin back into the system through the three spray heads where it is used to cool the hot gases of combustion leaving the furnace.

## Cowley County

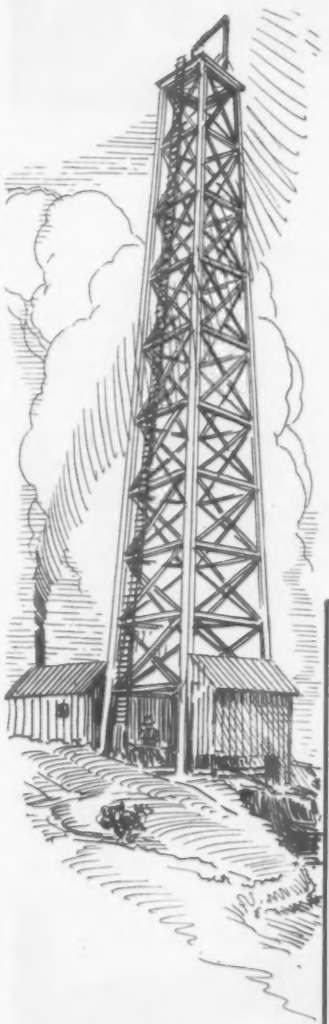
Ponca City, Okla.—Barnsdall Oil Corporation's Thurlow 2, in the northwest of the southeast of the northeast of Section 7-33-3e, Cowley County, Kansas, on the north edge of Rainbow Bend field, was reported flowing by heads July 19 from sand at 3484½-95 feet, with no water showing. This location resulted from a slight north extension made by Thurlow 1 several months ago.

## Grant County

Tulsa—Tom Palmer et al Lupton 1, in the southwest of the southeast of Section 26-28n-3w, Grant County, got a hole full of water on topping the Mississippi chat at 4575 feet and drilling to 4612 feet.

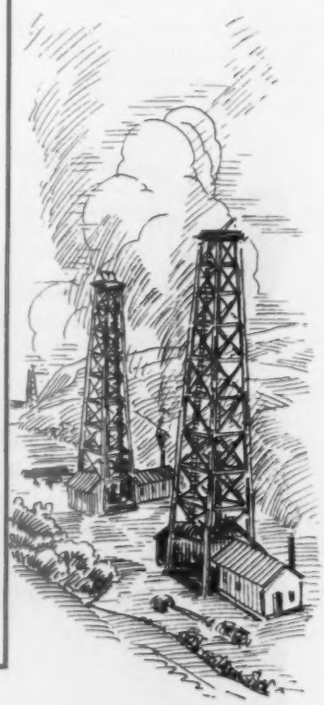
# At Home Among the Derricks

## *in every oil field of the Great Southwest*



STURDINESS with flexibility, power with endurance; stamina to keep on the job, and out of the repair shop for months of constant service. Ability to deliver oil field equipment and supplies to any well whether in a canyon, on a hill-top or miles out in trackless fields of clinging mud. That's what the life among the derricks demands of a truck. It is here that the Wichita is most at home. And such is the record of its service in every oil field of the Southwest. It is specifically your best buy for an oil field truck.

## *The* WICHITA *Oil Field Special*



**Write for Illustrated Catalogue**

*Write for Latest Illustrated Catalogue. It shows the Wichita unit by unit. Go over it with the drivers who put the Wichita through its paces, year in and year out.*

# Wichita Falls Motor Company

*J. A. Kemp, President, Wichita Falls, Texas*

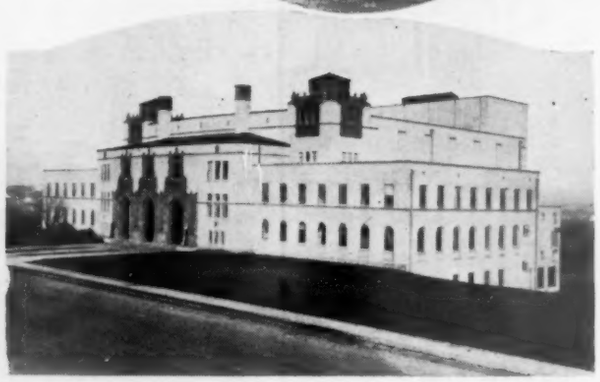
*A Home of the Finer Type in Wichita Falls*

*Residence of A Successful Oil Man Operating in North and West Texas*

*Type of Residence in a Restricted Addition of the City of Wichita Falls*

*Home of Another Oil Man Prominent in Wichita Falls*

*Junior College—Apart of the Wichita Falls Public School System*



*New $500,000 Memorial Auditorium*

*Playground in Scotland Park*

*Scene in Wichita Falls Municipal Park*

# Wichita Falls Offers Attractive Home for Oil Men

## In addition to many commercial and industrial advantages, civic organizations make claim "An Ideal Home for the Oil Man's Family"

By STAFF REPRESENTATIVE

WHILE offering marked advantages from a manufacturing and commercial standpoint, Wichita Falls justly prides itself on its homes and schools and churches and civic and municipal enterprises and activities, thus making for the city an ideal place in which to live.

With a population of approximately 60,000, Wichita Falls is large enough to have the advantages of a large city and is small enough to have retained the friendly, neighborly atmosphere which adds much to the happiness of a family. Some of the most beautiful residential additions in the Southwest have been developed here, with handsome homes, several of which have been built at an expenditure of $150,000 or more. There are also many sections in just as desirable locations where the buildings are more modest and street after street is filled with charming homes surrounded by trees, flowers and shrubs.

### Parks and Playgrounds

Every part of the city has parks and well equipped playgrounds in close proximity. During the summer months free picture shows and vaudeville entertainments are given in the various parks. Free swimming lessons are also given in four of the seven swimming pools that are available. An immense municipal park, consisting of 268 acres is highly developed, with winding drives, bridle paths, picnic grounds, playground equipment, a beautiful club house and an excellent 18-hole golf course.

The Wichita Falls Golf and Country Club also offers exceptional attractions to its members, having a handsome club house, splendid golf course, tennis courts and swimming pool.

### Lakes

Wichita Falls is located less than 50 miles from Lake Kemp of the Wichita Valley Irrigation project, which is the seventh largest artificial body of water in the world and 35 miles from the Diversion Lake, also of this project. Both of these lakes offer unexcelled fishing and hunting. Many local citizens own houseboats on the lake and a number of cottages have been erected on the shores. A hotel situated over the water, offers accommodations to those not desiring to camp.

A State fish hatchery has been built at the Diversion Lake and a State Park of more than 100 acres is being developed at this location. It is heavily wooded with an excellent road leading from Wichita Falls and fine camping sites with the best fishing in the country are available.

The third lake of the project is within six miles of the city with street car accommodations. Fine fishing and boating can be enjoyed on Lake Wichita. A large swimming pool is located here and there are numerous concessions, including a merry-go-round, etc. A big pavilion over over the water is cool at all times. One of the big amusement concerns of the country has recently taken a lease here and the 80 acres of shore front will be developed during the next two years at an expenditure of more than half a million dollars.

### Grand Opera

Wichita Falls has recently completed a municipal auditorium at a cost of more than half a million dollars. Soon after its completion the Chicago Civic Opera Company gave two performances to houses crowded with music lovers from all sections of North and Northwest Texas. It is expected to make Wichita Falls grand opera season an annual affair. The best to be had in music, plays, and lectures can be heard in this city as a result of the civic spirit of the business men who are always ready to put up the necessary guarantees to secure these attractions, and the efforts of the Woman's Forum.

The Womans Forum takes the lead in the cultural life of the city and its members are now enjoying one of the most beautiful and complete club homes in the country—one which is being used as a model by cities many times this size in all parts of the United States.

### Schools and Churches

There are 16 denominations with more than 50 churches in Wichita Falls. Many very handsome church edifices lift their spires to the sky and every religious advantage to be desired in the rearing of a family is offered.

No better schools can be found in the State. The system which is housed in modern and well equipped buildings, includes a junior college, a senior high school, two junior high schools, and 14 ward schools. There are two business colleges here and a Catholic academy. The junior college building was erected and equipped at a cost of approximately a million dollars and has been declared by the State inspector to be the best building of the kind in the State, with the exception of the main building at Rice Institute, Houston.

There are 85 miles of street paving in Wichita Falls and more than 150 miles of hard-surfaced highways in the county. These roads connect with pavement leading to all surrounding sections and to the larger cities of the State.

Wichita Falls is the cultural center of Northwest Texas and in addition to the advantages mentioned above there are a large number of study clubs, music and art clubs for the women, and various luncheon and civic clubs of interest to the men. A remarkably high class of citizenship makes Wichita Falls a city where living is really a pleasure.

### Acknowledged Oil Center

This city has long been the acknowledged oil center of a large area. With 11 refineries in the immediate vicinity, a number of concerns manufacturing oil well supplies of various kinds and ranking as one of the leading oil well supply distributing centers in the United States, it holds out special advantages to oil operators.

The Wichita Falls District produced more than 36 million barrels of oil in 1927, which was some two million barrels in excess of production at the highest peak of the Burkburnett boom. Wichita County maintains its place as second or third in production right along, regardless of the new fields being constantly discovered in various sections.

Wichita Falls is the home of hundreds of oil men, both independent operators and those connected with the large companies, most of which maintain headquarters here. An overnight ride will take one to practically every oil field in Texas, Oklahoma and Louisiana.

# OHIO MID-CITIES CORPORATION

## A Holding Company

**OWNING PRODUCING AND NON-PRODUCING ROYALTIES**

**IN**

**OKLAHOMA, LOUISIANA, TEXAS, KANSAS AND ARKANSAS**

Ohio Mid-Cities Corporation is an active member through its president of the following:
American Petroleum Institute.
Mid-Continent Oil & Gas Association, Texas Division.
American Petroleum Institute. Division of Development and Producing Engineering.
The Chamber of Commerce, Wichita Falls, Texas.

LAND OWNERS AND ROYALTY OWNERS

The Ohio Mid-Cities Corporation is interested in the purchase of producing Royalties that will stand the test and priced right. Submit complete details in first letter.

A MILLION DOLLAR CORPORATION WITH

119 Royalty Property Interests in a total of 11,118 Acres with some 621 producing wells. Diversified in 34 Counties and Five States.

Representatives through investment houses from coast to coast.

*General Offices:*

CITY NATIONAL BANK BUILDING, WICHITA FALLS, TEXAS

*Branch Offices:* Boston, Mass.; Buffalo, N. Y.; St. Louis, Mo; Wilmington, Del.; New York City, N. Y.; Binghampton, N. Y.; Elmira, N. Y.; Baltimore, Md.; Springfield, Mass.

# Petroleum Producers Company

JOHN F. O'DONOHOE, *President*

Producers of

*Crude Petroleum*

*General Offices:*

City National Bank Bldg. WICHITA FALLS, TEXAS

# The Clark Line of Oil Well Machinery

## *Announcing the Model 55 Wichita Falls Spudder*

**"Practically Designed for Service and Endurance"**

A Spudder designed and built especially for deep drilling. Constructed according to practical ideas advanced by cable tool men of long standing and experience, who know what a SPUDDER needs to handle heavy tools and pipe. It has everything a driller needs and wants. It is a machine that will swing heavy tools so that the pins may be large enough to prevent fishing, which has long been a problem with spudder men.

It has a long stroke, is hard hitting and has ample power on the calf wheel to pull any amount of pipe on any depth hole. Has plenty of speed on the tool drum without any gear changing. Following are some of the many outstanding features of the Wichita Falls Spudders, which are making them the most popular machine on the market.

### OUR RECENTLY IMPROVED CLUTCHES

Especially constructed Mast with more clearance for running long strings of tools and especial Alemite lubricating system allowing all sheaves to be oiled from the ground.

The specially arranged bailing reel allowing deeper bailing with greater speed.

Friction Reverse Independent of any other working part of the machine, which will reverse the drums at a high speed without shifting clutches or gears.

The Wichita Falls Spudder is built in three sizes. Models 25, 50, 50 Special and Model 55. Practical for drilling from 1000′ to 2500′.

*Write for prices and specifications*

The CLARK HEAVY DUTY WINCH

### THE CLARK HEAVY DUTY WINCH

built on the 17-30 Type "B" Minneapolis tractor is the most efficient machine made for pulling rods and tubing and bailing wells 4000′ and deeper. Develops a tremendous pull on a single line, is safe for the operator, has plenty of reserve power and brakes. Loads are always under perfect control. The two speeds on the drum providing a slow speed for heavy work and a high speed for rods and bailing cuts the cost of operation in half.

*Manufactured by*

**CLARK MACHINE COMPANY**

WICHITA FALLS, TEXAS

J. P. BARKLEY W. R. MEADOWS

BARKLEY & MEADOWS

*Oil Producers*
*and*
*Drilling Contractors*

*Offices*
City National Bank Building - - - - - Wichita Falls, Texas

**Bridwell Oil Company**

**Oil Producers**

City National Bank Building
WICHITA FALLS, TEXAS

HEYDRICK'S MAPS
of
WEST TEXAS COUNTIES
*show*

Fee and Lease Owners, Oil Development where there is any, the Towns, Railroads, Highways, and Streams. All recently revised. Scale, 4000 feet 1 inch.

*Write for catalog giving descriptions and prices*

HEYDRICK MAPPING COMPANY

609 Petroleum Bldg., FORT WORTH, TEXAS
708-10-12 7th Street, WICHITA FALLS, TEXAS

*Say you saw it in The OIL WEEKLY*

# STALEY, WYNNE & COMPANY

## OIL PRODUCERS

OFFICES:

STALEY BUILDING - - - WICHITA FALLS, TEXAS

# United States Torpedo Company

*Manufacturers of*

## NITRO GLYCERINE and DYNAMITE

Main Office: Electra, Texas. Phones Nos. 584 and L. D. 46

TEXAS STATIONS

Electra ..... Phone No. 584 Phone L. D. 46

Burkburnett— Glenn Buckner ..... Phone No. 14

Ranger— J. A. Rapp ..... Phone No. 382

Breckenridge— W. H. Blair ..... Phone No. 68

Brownwood— E. O. Nentwig ..... Phone No. 876

Wink, Texas— H. L. Rapp and J. W. Dailey ..... Phone No. 72

McCamey— C. C. Rupert ..... Phone No. 63

Amarillo— Tex Thornton ..... Phones Nos. 4730-21512

Borger— W. C. Brooks ..... Phone No. 49

Olney— F. W. Ziegler ..... Phones Nos. 20 and 237

OKLAHOMA STATIONS

Healdton— E. H. Simons ..... Phone No. 191

Duncan— M. E. Hannon ..... Phone No. 715

## All Pioneer Oil Well Shooters

# WICHITA FALLS

## *offers*

# BUSINESS OPPORTUNITIES

## *and*

# HOME ADVANTAGES

## *which make it*

## AN IDEAL LOCATION FOR THE OIL MAN

### *Some of these are:*

A Municipal Auditorium costing over half a million dollars, with seating capacity of 4500; every seat perfect vision and acoustics.

A mild and healthful climate.
Average rainfall, 29 inches.
Mean temperature, 67.15 degrees.

Six moving picture shows, Majestic circuit and Vitaphone.

One of the finest public school systems in the state, including Junior College, High School, two Junior High Schools and 15 ward schools.

Scholastic census, 10,359.

A population of approximately 60,000.
Native born white, 90.1%.
Literate, 98.4%.

An altitude of 958-1000 feet.

An area within city limits of 10.76 square miles.

Four banks with resources of $31,000,000.
Bank clearings, 1927, $146,825,408.00.
Bank deposits, Dec. 31, 1927, $25,812,265.00.

Four Building & Loan Associations with assets of over $4,000,000 and more than 12,000 members.

Building permits, 1927, $4,050,687.00.

A Baseball Club which won the Texas League pennant and Dixie series in 1927.

Fifty churches representing 17 denominations.

Total number church members approximately 17,000.

Number telephones, April 1, 1928, 10,847.

Number gas meters, April 1, 1928, 10,885.

Number electric meters, April, 1, 1928, 9,933.

Number water meters, April 1, 1928, 10,760.

An oil district that produced 36,081,795 barrels of oil in 1927.

Eighty-five miles of paved streets.

Eighty-six miles of sewer mains.

Six railroads and 24 passenger trains daily.

Thirty refineries in immediate district.

Sixteen miles of street railway and three bus lines in city.

Assessed valuation, $49,793,260.00.

Three modern hospitals, a private sanitarium for the treatment of nervous diseases and one state hospital for the treatment of the insane.

Two modernly equipped daily newspapers and two weekly publications.

Thirteen modern hotels with total number of rooms exceeding 1500.

Seventy-five wholesale and jobbing houses.

A trade territory of approximately 1,000,000 people.

## Wichita Falls Chamber of Commerce

# Proration Effort Reduces Output First Half 1928

## With plenty of oil in sight, state and cooperative proration enforcements have brought total output 13 million barrels under last year

By A. R. McTEE
*Staff Representative*

EFFECTIVE proration and shutdown efforts in flush fields with slackened activity in other sections of the country set a trend in production during the first half of this year certain to bring the total crude output for 1928 considerably below last year's figures. From January to June the decrease as compared with the same period last year was 13,282,510 barrels. Production up to June 30 amounted to 432,385,350 barrels against 445,667,860 barrels during the first half of 1927.

It is difficult to make predictions regarding the remainder of this year; however facts at this time point to a steady daily average yield for several months. No new fields of importance are in sight; but proration is established in the districts with heavy potential so that as the situation justifies more oil can and will be produced.

Daily average production at this time is only 1350 barrels below what it was on January 1. During the intervening months the curve has been jagged, showing an average of 2,398,700 barrels for April. May dropped back to approximately the same figure as January, and June showed an average of only 50 barrels below May.

### Hold Production Stable

With the necessity of proration so well emphasized and with the practice applied in all the fields where there is much danger of damaging over-production, the output of crude should not vary greatly for some time. There are sufficient reserves of restrained production to prevent noticeable decreases. How long these would last if the wells were allowed to produce at capacity is uncertain. In West Texas there are many operators who believe the fields would be relatively short lived. Pecos County, for instance, now has a reserve approximating 2,000,000 barrels daily, with only 65,000 barrels being taken from the field. It is the opinion of some operators in this district that the high potential would be eliminated within 30 days if the wells were opened. Winkler County is good evidence that such opinions are not ill-founded.

Looking at the situation from a more extended viewpoint, proration stands as the signal achievement for 1928. Even though it was forced upon the industry, the new attitude accompanying it has made proration invaluable. The fact that operators have been willing to try to solve their difficulties jointly is a great step forward; their cooperation with state agencies toward accomplishing a mutual benefit marks still greater progress. Very little friction has been encountered anywhere in working out curtailment programs; and with what has already been accomplished to guide, it seems that there never should be another acute over-production problem in the American oil industry.

### Texas Gains

In reviewing production in this country for the first half of 1928 there are several significant facts: First, Texas is the only state showing a gain in output for the six months. Winkler County is largely responsible for this increase. Before proration was adopted for the Hendricks pool, the output there went above 300,000 barrels daily, bringing a big increase in the state total.

The total gain in Texas amounted to 8,557,930 barrels with a gross production of 121,650,300 barrels. This mid-year total is 7,484,635 barrels more than half the total for 1927, indicating that Texas can be counted on for at least that much gain this year. The daily average of the state is now 63,600 barrels more than it was a year ago, with slight indication of decreasing.

Oklahoma, next in importance to Texas, shows a decrease of slightly more than 10,000,000 barrels from January 1 to June 30. This figure may be cut some during the last half of the year. It is doubtful however whether there will be much change in the daily average of Oklahoma.

### California Loses

California lost a little more than 3,000,000 barrels during the first six months. Since the first of the year there has been a gradual upward climbing in the output on the West Coast. Just now the situation indicates further gains, though probably insufficient to materially reduce the loss already sustained.

Field work slumped during the first half of this year along with the drop in output. The present rate of drilling indicates that there will be probably 4,000 difference in the number of completions this year and last, with the decrease in favor of 1928.

Completions from January to June totaled 8919, about 2250 less than for the first half of last year. All the states show reductions in field activity as compared with the same period in 1927.

**U. S. COMPARATIVE PRODUCTION FOR FIRST SIX MONTHS 1926, 1927 AND 1928**

| STATE— | Production 1st 6 Mo. 1928 | Production 1st 6 Mo. 1927 | Production Total 1927 | Production 1st 6 Mo. 1926 | Production Total 1926 |
|---|---|---|---|---|---|
| Araknsas | 16,422,150 | 21,970,090 | 40,776,010 | 31,389,951 | 59,229,000 |
| California | 113,365,200 | 116,565,250 | 230,751,465 | 110,251,388 | 224,117,000 |
| Eastern States | 19,569,000 | 19,726,750 | 40,477,000 | 18,171,650 | 39,078,000 |
| Kansas | 19,934,750 | 20,815,025 | 40,173,015 | 18,654,998 | 41,427,000 |
| Louisiana | 11,418,650 | 11,805,720 | 24,186,455 | 10,895,313 | 22,803,000 |
| Mountain States | 14,392,850 | 15,715,670 | 30,134,560 | 19,066,875 | 33,830,000 |
| Oklahoma | 115,632,450 | 125,976,990 | 271,302,615 | 82,724,192 | 179,272,000 |
| Texas | 121,650,300 | 113,092,365 | 226,331,330 | 62,490,928 | 164,858,000 |
| Totals | 432,385,350 | 445,667,860 | 904,132,450 | 353,645,295 | 766,504,000 |

**FIELD STATISTICS FOR FIRST SIX MONTHS OF THIS YEAR COMPARED WITH 1927**

| STATE— | Completions 6-Mo. 1928 | Completions Total 1927 | Producers 6 Mo. 1928 | Producers Total 1927 | Gas Wells 6 Mo. 1928 | Gas Wells Total 1927 | Failures 6 Mo. 1928 | Failures Total 1927 | Initial Production 6 Mo. 1928 | Initial Production Total 1927 | Annual Production 6 Mo. 1928 | Annual Production Total 1927 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arkansas | 107 | 330 | 53 | 170 | 7 | 36 | 47 | 124 | 34,858 | 16,188 | 16,422,150 | 40,776,010 |
| California | 331 | 937 | 255 | 830 | ... | 8 | 76 | 99 | 266,820 | 522,328 | 113,365,200 | 230,751,465 |
| Eastern States | 2,819 | 7,667 | 1,607 | 4,944 | 645 | 1,492 | 567 | 1,231 | 44,232 | 85,809 | 19,569,000 | 40,477,000 |
| Kansas | 549 | 1,128 | 253 | 518 | 45 | 66 | 251 | 544 | 62,833 | 91,081 | 19,934,750 | 40,173,015 |
| Louisiana | 376 | 841 | 96 | 357 | 132 | 135 | 148 | 349 | 45,151 | 114,163 | 11,418,650 | 24,186,455 |
| Mountain States | 108 | 500 | 94 | 351 | 8 | 32 | 6 | 117 | 34,287 | 140,663 | 14,392,850 | 30,134,560 |
| Oklahoma | 1,754 | 4,341 | 819 | 2,365 | 260 | 494 | 675 | 1,482 | 318,331 | 1,832,791 | 115,632,450 | 271,302,615 |
| Texas | 2,875 | 6,557 | 1,525 | 3,861 | 183 | 323 | 1,167 | 2,373 | 1,689,100 | 1,825,223 | 121,650,300 | 226,331,330 |
| Totals | 8,919 | 22,301 | 4,702 | 13,396 | 1,280 | 2,586 | 2,937 | 6,319 | 2,495,612 | 4,628,246 | 432,385,350 | 904,132,450 |

## COMPARATIVE FIELD STATISTICS FOR OKLAHOMA, FIRST HALF 1928

| County— | Completions First 6 Mo. 1928 | Completions First 6 Mo. 1927 | Completions Total 1927 | Producers First 6 Mo. 1928 | Producers First 6 Mo. 1927 | Producers Total 1927 | Gas Wells First 6 Mo. 1928 | Gas Wells First 6 Mo. 1927 | Gas Wells Total 1927 | Failures First 6 Mo. 1928 | Failures First 6 Mo. 1927 | Failures Total 1927 | Initial Production First 6 Mo. 1928 | Initial Production First 6 Mo. 1927 | Initial Production Total 1927 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Beaver | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .... | .... | .... |
| Beckham | 8 | 4 | 8 | .. | .. | .. | 4 | 3 | 4 | 4 | 1 | 4 | .... | .... | .... |
| Bryan | 2 | .. | .. | .. | .. | .. | .. | .. | .. | 2 | .. | .. | .... | .... | .... |
| Butler | 3 | .. | .. | 2 | .. | .. | .. | .. | .. | 1 | .. | .. | 445 | .... | .... |
| Caddo | 10 | 14 | 25 | 6 | 13 | 21 | 1 | 1 | 3 | 3 | .. | 1 | 385 | 569 | 857 |
| Candian | 1 | 1 | 1 | .. | .. | .. | .. | .. | .. | 1 | 1 | 1 | .... | .... | .... |
| Carter | 51 | 113 | 171 | 42 | 82 | 117 | .. | 7 | 11 | 9 | 24 | 43 | 6,789 | 17,304 | 21,578 |
| Cherokee | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .... | .... | .... |
| Cimarron | 6 | .. | 1 | .. | .. | .. | .. | .. | .. | 6 | .. | 1 | .... | .... | .... |
| Cleveland | 2 | .. | 3 | .. | .. | .. | .. | .. | .. | 2 | .. | 3 | .... | .... | .... |
| Coal | 1 | 1 | 1 | .. | .. | .. | .. | 1 | .. | 1 | .. | 1 | .... | .... | .... |
| Comanche | 2 | 13 | 15 | .. | 1 | 2 | .. | .. | .. | 2 | 12 | 13 | .... | .... | 35 |
| Cotton | 8 | 2 | 3 | 2 | .. | 1 | 2 | .. | .. | 4 | 2 | 2 | 65 | .... | 30 |
| Creek | 162 | 310 | 520 | 75 | 171 | 267 | 18 | 32 | 65 | 69 | 107 | 188 | 10,500 | 35,394 | 50,367 |
| Garfield | 12 | 41 | 55 | 4 | 26 | 26 | 1 | 1 | 2 | 7 | 14 | 27 | 88 | 3,472 | 5,172 |
| Garvin | 7 | 9 | 16 | 1 | 2 | 9 | .. | 3 | 3 | 6 | 4 | 4 | 45 | 51 | 241 |
| Grady | 92 | 151 | 266 | 10 | 75 | 122 | 62 | 40 | 75 | 20 | 36 | 69 | 1,145 | 13,976 | 19,031 |
| Grant | 10 | 3 | 10 | 4 | .. | 1 | 4 | 2 | 2 | 2 | 1 | 7 | 1,032 | .... | 600 |
| Greer | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .... | .... | .... |
| Harper | .. | 1 | 1 | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .... | .... | 1 |
| Haskell | .. | .. | 2 | .. | .. | .. | .. | .. | 2 | .. | .. | .. | .... | .... | .... |
| Hughes | 14 | 22 | 40 | 6 | 10 | 1[illegible] | 1 | 1 | 10 | 7 | 11 | 18 | 836 | 1,880 | 1,940 |
| Jefferson | 18 | 7 | 15 | 9 | 1 | 3 | 1 | 1 | 1 | 8 | 5 | 11 | 600 | 10 | 80 |
| Johnston | .. | 1 | 1 | .. | .. | .. | .. | .. | .. | .. | 1 | 1 | .... | .... | .... |
| Kay | 95 | 138 | 225 | 4 | 80 | 99 | 34 | 20 | 45 | 57 | 38 | 81 | 485 | 31,822 | 33,447 |
| Kingfisher | 1 | 2 | 4 | .. | .. | .. | .. | .. | .. | 1 | 2 | 4 | .... | .... | .... |
| Kiowa | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .... | .... | .... |
| Le Flore | .. | .. | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .... | .... | .... |
| Lincoln | 8 | 16 | 30 | 5 | 5 | 9 | 1 | .. | .. | 2 | 11 | 21 | 2,225 | 203 | 1,788 |
| Logan | 23 | 5 | 11 | 10 | 2 | 5 | 3 | 1 | 2 | 10 | 2 | 4 | 5,153 | 448 | 3,058 |
| Love | 1 | 2 | 3 | .. | .. | .. | .. | .. | .. | 1 | 2 | 3 | .... | .... | .... |
| Major | 1 | 2 | 2 | .. | .. | .. | .. | .. | .. | 1 | 2 | 2 | .... | .... | .... |
| Marshall | 2 | 3 | 3 | 1 | .. | .. | .. | .. | .. | 1 | 3 | 3 | .... | .... | .... |
| Mayes | .. | .. | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .... | .... | .... |
| McIntosh | 2 | 5 | 15 | .. | 2 | 4 | .. | 1 | 3 | 2 | 2 | 8 | .... | 30 | 30 |
| Mitchell | 2 | .. | .. | 1 | .. | .. | .. | .. | .. | 1 | .. | .. | 15 | .... | .... |
| Murray | .. | 1 | 2 | .. | .. | .. | .. | .. | .. | .. | 1 | 2 | .... | .... | .... |
| Muskogee | 163 | 49 | 124 | 48 | 12 | 29 | 17 | 6 | 18 | 98 | 31 | 77 | 3,390 | 570 | 1,315 |
| Noble | 2 | 3 | 4 | .. | .. | 1 | .. | .. | .. | 2 | 3 | 3 | .... | .... | 20 |
| Okfuskee | 41 | 61 | 94 | 21 | 22 | 30 | 8 | 12 | 22 | 12 | 27 | 42 | 3,167 | 5,716 | 11,559 |
| Oklahoma | .. | 1 | 5 | .. | 1 | 1 | .. | .. | .. | .. | .. | 4 | .... | 40 | 40 |
| Kkmulgee | 113 | 127 | 225 | 37 | 51 | 9[illegible] | 30 | 24 | 50 | 46 | 52 | 83 | 675 | 2,200 | 3,542 |
| Osage | 169 | 256 | 391 | 119 | 157 | 214 | 13 | 23 | 59 | 37 | 76 | 118 | 44,053 | 38,973 | 59,421 |
| Pawnee | 24 | 60 | 83 | 13 | 28 | 32 | 4 | 2 | 8 | 7 | 30 | 43 | 179 | 1,744 | 1,847 |
| Payne | 11 | 29 | 39 | 4 | 20 | 23 | 2 | 4 | 7 | 5 | 5 | 9 | 220 | 1,970 | 6,060 |
| Pittsburgh | 5 | 5 | 7 | .. | .. | .. | 5 | 3 | 3 | .. | 2 | 4 | .... | .... | .... |
| Pontotoc | 75 | 6 | 69 | 40 | 4 | 31 | 10 | 1 | 15 | 25 | 1 | 23 | 10,175 | 560 | 10,917 |
| Pottawatomie | 98 | 27 | 185 | 68 | 20 | 1[illegible]8 | 4 | .. | 7 | 26 | 7 | 50 | 44,271 | 45,411 | 245,506 |
| Rogers | 5 | 1 | 1 | .. | .. | .. | .. | .. | .. | 5 | 1 | 1 | .... | .... | .... |
| Seminole | 248 | 298 | 1,240 | 172 | 398 | 944 | 10 | 4 | 13 | 66 | 96 | 283 | 165,564 | 635,948 | 1,350,323 |
| Sequoyah | 3 | .. | 1 | .. | .. | .. | 1 | .. | .. | 2 | .. | 1 | .... | .... | .... |
| Stephens | 127 | 85 | 161 | 73 | 38 | 71 | 10 | 9 | 21 | 44 | 38 | 69 | 14,700 | 8,165 | 16,233 |
| Texas | 4 | 4 | 5 | .. | .. | .. | .. | 1 | 1 | 4 | 3 | 4 | .... | .... | .... |
| Tillman | .. | 4 | 6 | .. | .. | .. | .. | 1 | .. | .. | 3 | 6 | .... | .... | .... |
| Tulsa | 61 | 63 | 111 | 29 | 24 | 4[illegible] | 6 | 6 | 16 | 26 | 33 | 53 | 2,423 | 2,756 | 3,499 |
| Wagoner | 49 | 54 | 112 | 9 | 9 | 17 | 6 | 10 | 16 | 34 | 35 | 79 | 240 | 351 | 562 |
| Washita | .. | 1 | 1 | .. | .. | .. | .. | .. | .. | .. | 1 | 1 | .... | .... | .... |
| Totals | 1,746 | 2,201 | 4,341 | 815 | 1,254 | 2,365 | 258 | 219 | 494 | 673 | 728 | 1,482 | 318,865 | 849,563 | 1,832,791 |

## COMPARATIVE FIELD STATISTICS FOR CALIFORNIA, FIRST HALF 1928

| Field— | Completions First 6 Mo. 1928 | Completions First 6 Mo. 1927 | Completions Total 1927 | Producers First 6 Mo. 1928 | Producers First 6 Mo. 1927 | Producers Total 1927 | Gas Wells First 6 Mo. 1928 | Gas Wells First 6 Mo. 1927 | Gas Wells Total 1927 | Failures First 6 Mo. 1928 | Failures First 6 Mo. 1927 | Failures Total 1927 | Initial Production First 6 Mo. 1928 | Initial Production First 6 Mo. 1927 | Initial Production Total 1927 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Athens-Rosecrans | 5 | 6 | 13 | 4 | 4 | 11 | .. | 1 | 1 | 1 | 1 | 1 | 1,960 | 3,421 | 6,326 |
| Baldwin Hills-Inglewood | 3 | 9 | 26 | 3 | 8 | 25 | .. | .. | .. | .. | 1 | 1 | 460 | 1,982 | 7,141 |
| Belridge | 3 | .. | .. | 3 | .. | .. | .. | .. | .. | .. | .. | .. | 375 | .... | .... |
| Brea-Richfield | 6 | 42 | 62 | 6 | 41 | 59 | .. | .. | .. | .. | 1 | 3 | 5,635 | 18,942 | 24,149 |
| Cat Canyon | 4 | 5 | 8 | 4 | 5 | 8 | .. | .. | .. | .. | .. | .. | 1,200 | 1,000 | 2,600 |
| Coalinga | 2 | .. | .. | 2 | .. | .. | .. | .. | .. | .. | .. | .. | 210 | .... | .... |
| Dominguez | 5 | 10 | 12 | 5 | 10 | 11 | .. | .. | 1 | .. | .. | .. | 305 | 2,910 | 3,510 |
| East Coyote | 1 | .. | 6 | .. | .. | 4 | .. | .. | .. | 1 | .. | 2 | .... | .... | 560 |
| Elk Hills | .. | 4 | 5 | .. | 4 | 5 | .. | .. | .. | .. | .. | .. | .... | 323 | 323 |
| Goleta | 2 | 2 | 11 | .. | 2 | 7 | .. | .. | .. | 2 | .. | 4 | .... | 485 | 2,475 |
| Hovey Hills | .. | 1 | 1 | .. | 1 | 1 | .. | .. | .. | .. | .. | .. | .... | 250 | 250 |
| Huntington Beach | 25 | 103 | 174 | 20 | 102 | 170 | .. | .. | .. | 5 | 1 | 4 | 5,860 | 62,100 | 79,040 |
| Kern Front | 30 | 27 | 80 | 30 | 26 | 78 | .. | .. | .. | .. | 1 | 2 | 5,395 | 4,310 | 11,715 |
| Long Beach | 103 | 23 | 55 | 101 | 21 | 53 | .. | 1 | 1 | 2 | 1 | 1 | 173,290 | 11,924 | 70,7[illegible]9 |
| Maricopa Flats | .. | 1 | 1 | .. | .. | 1 | .. | .. | .. | .. | 1 | .. | .... | .... | 52 |
| McKittrick | 1 | .. | .. | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 160 | .... | .... |
| Midway-Sunset | 12 | 50 | 65 | 11 | 49 | 64 | .. | 1 | 1 | 1 | .. | .. | 3,990 | 9,057 | 10,742 |
| Montebello | 3 | 4 | 6 | 2 | 4 | 6 | .. | .. | .. | 1 | .. | .. | 250 | 563 | 968 |
| Piru District | .. | 3 | 4 | .. | 1 | 1 | .. | .. | 1 | .. | 2 | 2 | .... | 55 | 55 |
| Poso Creek | 3 | 5 | 5 | 1 | 3 | 3 | .. | .. | .. | 2 | 2 | 2 | 500 | 1,074 | 1,074 |
| Richfield | 8 | * | 7 | 6 | * | 6 | .. | * | .. | 2 | * | 1 | 1,855 | * | 1,740 |
| Rideout Heights | .. | 2 | 2 | .. | 1 | 1 | .. | .. | .. | .. | 1 | 1 | .... | 140 | 140 |
| Rincon | 17 | .. | .. | 17 | .. | .. | .. | .. | .. | .. | .. | .. | 10,425 | .... | .... |
| Round Mountain | 5 | .. | 1 | 5 | .. | .. | .. | .. | .. | .. | .. | 1 | 1,955 | .... | .... |
| Santone Springs | .. | 1 | .. | .. | 1 | .. | .. | .. | .. | .. | .. | .. | .... | 200 | .... |
| Santa Barbara | .. | 3 | 3 | .. | 1 | .. | .. | .. | .. | .. | 2 | .. | .... | .... | .... |
| Santa Fe Springs | 3 | 2 | 5 | 1 | 2 | 5 | .. | .. | .. | 2 | .. | .. | 225 | 460 | 960 |
| Seal Beach | 24 | 75 | 252 | 14 | 75 | 221 | .. | .. | .. | 10 | .. | 31 | 13,730 | 107,683 | 226,709 |
| South Mountain | 1 | 4 | 8 | 1 | 4 | 8 | .. | .. | .. | .. | .. | .. | 100 | 686 | 1,206 |
| Summerland | .. | 1 | 1 | .. | 1 | 1 | .. | .. | .. | .. | .. | .. | .... | 30 | 30 |
| Torrance | .. | 5 | 10 | .. | 5 | 10 | .. | .. | .. | .. | .. | .. | .... | 906 | 1,401 |
| Topo Canyon | .. | 1 | 3 | .. | .. | 3 | .. | .. | .. | .. | 1 | .. | .... | .... | 81 |
| Ventura Avenue | 18 | 23 | 41 | 18 | 23 | 40 | .. | .. | 1 | .. | .. | .. | 35,800 | 36,098 | 62,958 |
| Wheeler Ridge | 2 | 3 | 5 | 2 | 3 | 5 | .. | .. | .. | .. | .. | .. | 165 | 370 | 480 |
| Others | .. | .. | 6 | .. | .. | 3 | .. | .. | .. | .. | .. | 3 | .... | .... | 3,810 |
| Wildcats | 43 | 28 | .. | 2 | 18 | .. | .. | 1 | 2 | 41 | 9 | 40 | 300 | 845 | 1,104 |
| Totals | 329 | 440 | 937 | 259 | 414 | 830 | .. | 4 | 8 | 70 | 22 | 99 | 264,145 | 265,415 | 522,328 |

*Included under Brea-Richfield.

# *Progressive*

## *Texas and Oklahoma Communities We are Privileged to Serve*

Abilene
Abbott
Achille, Okla.
Anna
Alvarado
Alvord
Arlington
Baird
Bardwell
Bellevue
Birdville
Bonham
Bowie
Bridgeport
Buckners
Burleson
Byers
Ballinger
Buckholtz
Bartlett
Bells
Caddo Mills
Carrollton
Cedar Hill
Celina
Chillicothe
Cisco
Cleburne
Clyde
Commerce
Corsicana
Covington
Cumby
Cooper
Campbell
Celeste
Cameron
Colorado
Dallas
Davidson, Okla.
Decatur
Denison
Denton
Dodd City
Durant, Okla.
Davis, Okla.
Eastland
Electra
Elm Mott
Emhouse
Ennis
Everman
Ector
Farmersville
Ferris
Forney
Forreston
Frederick, Okla.
Fort Worth
Frisco
Gainesville
Garland
Grand Prairie
Grandview

Greenville
Granger
Handley
Harrold
Henrietta
Hillsboro
Hollis, Okla.
Honey Grove
Hutchins
Holland
Irving
Iowa Park
Italy
Itasca
Josephine
Joshua
Kaufman
Keene
Lancaster
Lewisville
Lipan
Loco, Okla.
Ladonia
Leonard
Mansfield
Maypearl
Mesquite
Mexia
Midlothian
Moran
McKinney
Marlin
Mart
Merkel
Nevada
Oak Lawn
Oklaunion
Paris
Parks
Petrolia
Plano
Prosper
Putnam
Pauls Valley, Okla.
Penelope
Purcell, Okla.
Ranger
Rhome
Richardson
Richland
Rockwall
Rowlett
Royse City
Rockdale
Roundrock
Sanger
Sherman
Sunset
Sulphur Springs
Sweetwater
Sulphur, Okla.
Savoy
Terrell
Tipton, Okla.
Trenton
Temple
Urbandale
Valley View
Vernon
Venus
Van Alstyne
Waco
Waxahachie
West
Whitesboro
Wichita Falls
Wortham
Westminister
Whitewright
Wolfe City
Winters
Waurika, Okla.

## *Plants under construction to be served by Lone Star Gas System*

Taylor Georgetown Rogers

## *Towns in which plants are to be constructed and served by Lone Star Gas System*

Saginaw Newark Palmer Hutto Ryan, Okla

**Lone Star* Gas Co.**

* The Lone Star Gas Company is a producer, purchaser, pipe line transporter and wholesaler of natural gas. It serves you by backing up the service of your local company.

"IF IT'S WORTH DRILLING

*This train left Tulsa*

# Two Train Loads of Smith

In protecting the producing properties of West Texas and other flush fields, Smith Separators have again demonstrated the fact that they are capable of carrying considerable capacities in excess of their published ratings. Made of SSCO-STEEL, Smith Separators offer

## SMITH SEPARA

TULSA

HOUSTON FORT WORTH

*This train left Tulsa*

***There's a Type For Every Service, and a Size***

*Say you saw it in The OIL WEEKLY*

## FOR IT'S WORTH SAVING"

*April 18th, 1928*

# Separator Insurance

a greater factor of safety, together with longer life. Their additional strength and greater service, due to this uniform tensile, special analysis separator steel has not increased their price—making these *quality controlled* oil and gas separators the greatest value the market affords.

# TOR COMPANY

OKLAHOMA

SHREVEPORT LOS ANGELES

*May 30th, 1928*

***For Every Production Need — Made in SSCO-Steel***

## COMPARATIVE FIELD STATISTICS FOR TEXAS, FIRST HALF 1928

| | Completions | | | Producers | | | Gas Wells | | | Failures | | | Initial Production* | | | Annual Production | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1st 6 mo. 1928 | 1st 6 mo. 1927 | Total 1927 | 1st 6 mo. 1928 | 1st 6 mo. 1927 | Total 1927 | 1st 6 mo. 1928 | 1st 6 mo. 1927 | Total 1927 | 1st 6 mo. 1928 | 1st 6 mo. 1927 | Total 1927 | 1st 6 mo. 1928 | 1st 6 mo. 1927 | Total 1927 | 1st 6 mo. 1928 | 1st 6 mo. 1927 | Total 1927 |
| **PANHANDLE—** | | | | | | | | | | | | | | | | | | |
| Armstrong County | 1 | .. | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 1 | ..... | ..... | ..... | ..... | ..... |
| Bailey County | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 2 | .. | .. | ..... | ..... | ..... | ..... | ..... | ..... |
| Carson County | 13 | 103 | 134 | 2 | 91 | 110 | 10 | 6 | 18 | 1 | 6 | 6 | 335[324] | 33,075 | 37,330[482] | 1,311,450 | 1,586,690 | 3,235,805 |
| Dallam County | 2 | .. | .. | .. | .. | .. | .. | .. | .. | 2 | .. | .. | ..... | ..... | ..... | a | ..... | ..... |
| Floyd County | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | ..... | ..... | ..... | ..... | ..... | ..... |
| Gray County | 80 | 62 | 112 | 60 | 55 | 92 | 18 | 4 | 10 | 12 | 3 | 10 | 32,630[418] | 14,607 | 38,622[109] | 3,548,650 | 1,686,445 | 4,091,835 |
| Hale County | 2 | .. | .. | .. | .. | .. | .. | .. | .. | 2 | .. | .. | ..... | ..... | ..... | ..... | ..... | ..... |
| Hartley County | 1 | .. | 1 | .. | .. | .. | .. | .. | .. | 1 | .. | 1 | ..... | ..... | ..... | ..... | ..... | ..... |
| Hutchinson County | 24 | 337 | 445 | 19 | 321 | 404 | 3 | 12 | 31 | 2 | 4 | 10 | 2,240[96] | 115,500 | 132,365[1218] | 7,920,500 | 19,923,680 | 33,389,205 |
| Lamb County | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | ..... | ..... | ..... | ..... | ..... | ..... |
| Moore County | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | ..... | ..... | ..... | ..... | ..... | ..... |
| Oldham County | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | ..... | ..... | ..... | ..... | ..... | ..... |
| Potter County | 3 | .. | 1 | .. | .. | .. | 3 | .. | 1 | .. | .. | .. | [42] | ..... | [80] | a | ..... | ..... |
| Sherman County | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | ..... | ..... | ..... | a | ..... | ..... |
| Wheeler County | 18 | 36 | 60 | 1 | 22 | 29 | 16 | 10 | 23 | 1 | 4 | 8 | 60[523] | 9,225 | 10,685[706] | 193,900 | 394,655 | 698,800 |
| Wildcats | 2 | .. | .. | .. | .. | .. | .. | .. | .. | 2 | .. | .. | ..... | ..... | ..... | ..... | ..... | ..... |
| Others | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | ..... | ..... | ..... | 21,000 | f | f |
| Total | 152 | 538 | 754 | 72 | 489 | 635 | 50 | 32 | 83 | 30 | 17 | 36 | 35,265[1413] | 172,407 | 219,002[2 87] | 13,095,500 | 23,591,470 | 41,406,645 |
| **EAST CENTRAL—** | | | | | | | | | | | | | | | | | | |
| Corsicana-Powell | .. | 13 | 14 | .. | 7 | 7 | .. | .. | .. | .. | 6 | 7 | ..... | 1,055 | 1,055 | 2,144,450 | 3,779,005 | 6,450,425 |
| Currie | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | ..... | ..... | ..... | 97,950 | 119,555 | 229,715 |
| Mexia | .. | 10 | 13 | .. | 8 | 11 | .. | .. | .. | .. | 2 | 2 | ..... | 630 | 705 | 1,348,550 | 2,034,245 | 3,733,030 |
| Nigger Creek and Cedar Creek | .. | 2 | 8 | .. | 1 | 6 | .. | .. | .. | .. | 1 | 2 | ..... | 80 | 1,305 | 255,150 | 1,108,680 | 1,565,890 |
| Richland | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | ..... | ..... | ..... | 100,800 | 210,900 | 366,095 |
| Wortham | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | ..... | ..... | ..... | 358,050 | 802,975 | 1,306,395 |
| Wildcats | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | ..... | ..... | ..... | ..... | ..... | ..... |
| Total | 1 | 25 | 35 | .. | 16 | 24 | .. | .. | .. | 1 | 9 | 11 | ..... | 865 | 3,065 | 4,304,950 | 8,055,360 | 13,651,550 |
| **WEST TEXAS—** | | | | | | | | | | | | | | | | | | |
| Crane County | 17 | 97 | 224 | 16 | 95 | 221 | .. | .. | 1 | 1 | 2 | 2 | 8,750 | 95,215 | 238,420 | c15,123,150 | c9,027,870 | c30,566,340 |
| Crockett County | 1 | 2 | 10 | 1 | 2 | 10 | .. | .. | .. | .. | .. | .. | 300 | 505 | 3,760 | 467,600 | 246,610 | 625,105 |
| Ector County | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | ..... | ..... | ..... | ..... | ..... | 12,000 |
| Howard | 42 | 61 | 96 | 38 | 58 | 90 | 2 | .. | 1 | 2 | 3 | 5 | 15,602[9] | 4,202 | 8,277[23] | 887,600 | 714,045 | 1,137,900 |
| Jones | 6 | 12 | 15 | 6 | 10 | 13 | .. | .. | .. | .. | 2 | 2 | 1,235 | 3,900 | 4,710 | 231,000 | 511,700 | 843,490 |
| Mitchell-Scurry Counties | 4 | 21 | 31 | 3 | 20 | 30 | .. | .. | .. | 1 | 1 | 1 | 285 | 1,665 | 2,592 | 580,650 | 673,436 | 1,342,630 |
| Pecos | 104 | 2 | 92 | 103 | 2 | 91 | .. | .. | .. | 1 | .. | 1 | 720,655 | 4,670 | 521,542 | 9,118,450 | 437,250 | 5,219,745 |
| Reagan | 8 | 34 | 49 | 8 | 29 | 44 | .. | 2 | 2 | .. | 3 | 3 | 1,705 | 5,465 | 10,870[8] | 3,552,000 | 4,987,220 | 9,421,525 |
| Upton | 6 | 118 | 146 | 5 | 110 | 136 | .. | .. | .. | 1 | 8 | 10 | 580 | 47,809 | 64,329 | b | b | b |
| Winkler | 165 | 2 | 38 | 157 | 2 | 34 | 3 | .. | 2 | 5 | .. | 2 | 700,480[125] | 340 | 96,645[100] | 27,274,900 | 29,610 | 3,045,605 |
| Wildcats | 122 | .. | .. | 8 | .. | .. | 2 | .. | .. | 112 | .. | .. | 740 | ..... | ..... | ..... | ..... | ..... |
| Others | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | ..... | ..... | ..... | 366,100 | f | f |
| Total | 475 | 349 | 701 | 345 | 328 | 669 | 8 | 2 | 6 | 122 | 19 | 26 | 1,450,352[226] | 163,771 | 951,145[121] | 57,601,250 | 16,627,741 | 52,214,340 |
| **WEST CENTRAL—** | | | | | | | | | | | | | | | | | | |
| Brown County | 313 | 544 | 900 | 155 | 355 | 587 | 14 | 6 | 15 | 144 | 183 | 298 | 18,554[16] | 106,595 | 149,954[88] | 2,411,500 | 5,043,760 | 9,093,490 |
| Callahan County | 46 | 64 | 141 | 8 | 16 | 46 | 4 | 2 | 3 | 34 | 46 | 92 | 200[5] | 1,240 | 3,512[25] | 704,900 | 925,905 | 1,628,850 |
| Coleman County | 79 | 42 | 95 | 25 | 1 | 6 | 12 | 3 | 13 | 42 | 38 | 76 | 3,065[57] | 50 | 220[7] | 305,200 | 269,305 | 472,110 |
| Commanche County | 7 | .. | 2 | 2 | .. | .. | 2 | .. | .. | 3 | .. | 2 | 60[5] | ..... | [4] | ..... | ..... | ..... |
| Eastland-Desdemona | 100 | 91 | 206 | 34 | 48 | 106 | 19 | 9 | 22 | 47 | 34 | 78 | 9,995[87] | 11,083 | 22,451[170] | 1,474,200 | 1,169,310 | 2,755,765 |
| Jack County | 44 | 25 | 108 | 14 | 14 | 55 | .. | .. | 5 | 30 | 11 | 48 | 675 | 551 | 2,431 | 264,250 | 110,235 | 248,780 |
| McCulloch County | 5 | .. | 1 | .. | .. | .. | 1 | .. | .. | 4 | .. | 1 | .....[4] | ..... | ..... | ..... | ..... | ..... |
| Palo Pinto County | 14 | 13 | 29 | 3 | 6 | 7 | 3 | 2 | 7 | 8 | 5 | 15 | 90[12] | 305 | 320[10] | 85,000 | 314,030 | 446,170 |
| Parker County | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | ..... | ..... | ..... | ..... | ..... | ..... |
| Shackelford County | 109 | 211 | 270 | 70 | 113 | 128 | 3 | 1 | 2 | 36 | 97 | 140 | 7,742[10] | 10,612 | 10,052[26] | 1,484,700 | 2,428,905 | 3,598,755 |
| Stephens County | 41 | 47 | 72 | 12 | 21 | 29 | 6 | 7 | 13 | 23 | 19 | 30 | 1,660[15] | 1,558 | 1,953[38] | 1,407,350 | 1,701,525 | 3,289,790 |
| Throckmorton County | 3 | 48 | 66 | 1 | 17 | 25 | .. | 1 | 2 | 2 | 30 | 39 | 20 | 3,960 | 4,555[9] | 187,600 | 615,660 | 884,285 |
| Young County | 267 | 156 | 288 | 115 | 85 | 127 | 3 | 7 | 7 | 149 | 64 | 154 | 7,319 | 16,023 | 27,585 | 1,541,400 | 1,570,155 | 3,395,395 |
| Others | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | ..... | ..... | ..... | 109,550 | f | f |
| Total | 1029 | 1241 | 2178 | 439 | 676 | 1116 | 67 | 38 | 89 | 523 | 527 | 973 | 49,390[213] | 151,977 | 223,033[467] | 9,975,700 | 14,148,790 | 25,813,390 |
| **EAST TEXAS—** | | | | | | | | | | | | | | | | | | |
| Anderson County | 2 | .. | .. | 1 | .. | .. | .. | .. | .. | 1 | .. | .. | 83 | ..... | ..... | ..... | ..... | ..... |
| Harrison County | 18 | 2 | 26 | 3 | .. | .. | 15 | .. | 26 | .. | 2 | .. | 36[43] | ..... | ..... | ..... | ..... | ..... |
| Panola County | 19 | 1 | 8 | 2 | 1 | 5 | 17 | .. | 3 | .. | .. | .. | 10[10] | 16 | 5,119 | ..... | ..... | ..... |
| Marion County | 1 | .. | 1 | 1 | .. | 1 | .. | .. | .. | .. | .. | .. | 5 | ..... | 52 | ..... | ..... | ..... |
| Wildcats | 22 | .. | .. | .. | .. | .. | .. | .. | .. | 22 | .. | .. | ..... | ..... | ..... | ..... | ..... | ..... |
| Total | 62 | 3 | 35 | 7 | 1 | 6 | 32 | .. | 29 | 23 | 2 | .. | 134[102] | 16 | 5,171 | ..... | f | f |
| **NORTH TEXAS—** | | | | | | | | | | | | | | | | | | |
| Archer County | 239 | 346 | 526 | 115 | 185 | 252 | .. | .. | .. | 124 | 161 | 274 | 7,664 | 14,894 | 17,679 | 3,764,600 | 5,570,155 | 10,297,530 |
| Baylor County | .. | 2 | 5 | .. | 1 | 1 | .. | .. | .. | .. | 1 | 4 | ..... | 15 | 15 | 16,100 | 21,825 | 40,225 |
| Burkburnett | 35 | 44 | 66 | 23 | 28 | 39 | .. | .. | .. | 12 | 16 | 27 | 162 | 1,003 | 1,312 | 2,165,450 | 2,452,255 | 4,814,090 |
| Clay County | 9 | 23 | 36 | 2 | 6 | 7 | 1 | 2 | 3 | 6 | 15 | 26 | 19 | 120 | 140[3] | 85,050 | 104,720 | 271,455 |
| Collin County | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | ..... | ..... | ..... | ..... | ..... | ..... |

(Continued on Page 146)

# STEEL BUILDINGS

## From Largest to Smallest ~ for any Purpose

The enormous increase in the use of BRADEN Buildings is justified by their sturdiness, workmanship and appearance.

BRADEN Sectional Steel Buildings are the result of experiment and study by men whose lives have been spent in the steel building industry.

Only the best of materials are used. This type of building has the easiest and quickest method of dismantling and moving.

*Write for full particulars*

The Braden Steel Corporation manufactures *fabricated* steel buildings for all industrial uses. Also BRADEN patented Lock-Joint Steel Buildings for filling stations, garages, meter houses, etc. Fully descriptive literature on request.

**BRADEN STEEL CORPORATION**
**Tulsa, Okla.**

*In Texas*—Mr. L. E. Bales, Box 2194, Dallas. Texas Steel Bldg. Co., West Bldg., Houston.

# BRADEN

*Say you saw it in The OIL WEEKLY*

(Continued on Page 146)

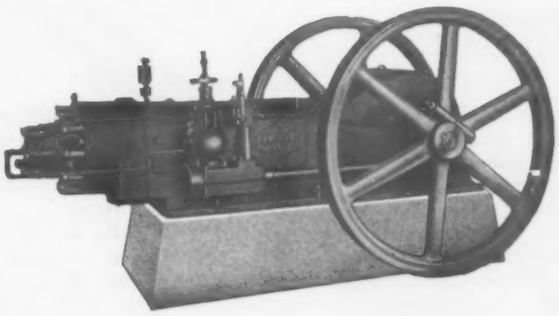
## COMPARATIVE FIELD STATISTICS FOR TEXAS, FIRST HALF 1928

(Continued from Page 144)

| | Completions | | | Producers | | | Gas Wells | | | Failures | | | Initial Production* | | | Annual Production | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NORTH TEXAS—Con't. | 1st 6 mo. 1928 | 1st 6 mo. 1927 | Total 1927 | 1st 6 mo. 1928 | 1st 6 mo. 1927 | Total 1927 | 1st 6 mo. 1928 | 1st 6 mo. 1927 | Total 1927 | 1st 6 mo. 1928 | 1st 6 mo. 1927 | Total 1927 | 1st 6 mo. 1928 | 1st 6 mo. 1927 | Total 1927 | 1st 6 mo. 1928 | 1st 6 mo. 1927 | Total 1927 |
| Cooke County | 25 | 94 | 204 | 8 | 57 | 133 | .. | 2 | 6 | 17 | 35 | 65 | 90 | 6,640 | 14,308[11] | e | 448,260 | 1,951,010 |
| Denton County | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | ..... | ..... | ..... | ..... | ..... | ..... |
| Electra | 83 | 123 | 169 | 53 | 67 | 87 | .. | .. | .. | 30 | 56 | 82 | 1,597 | 3,152 | 3,758 | 2,178,400 | 2,755,175 | 5,052,150 |
| Fannin County | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | ..... | ..... | ..... | ..... | ..... | ..... |
| Foard County | 3 | .. | 1 | .. | .. | .. | 1 | .. | .. | 2 | .. | 1 | .....[2] | ..... | ..... | ..... | ..... | ..... |
| Grayson County | 4 | .. | 2 | .. | .. | .. | .. | .. | 1 | 4 | .. | 1 | ..... | ..... | .....[2] | ..... | ..... | ..... |
| Haskell County | 3 | .. | 1 | .. | .. | .. | .. | .. | .. | 3 | .. | 1 | ..... | ..... | ..... | ..... | ..... | ..... |
| K. M. A.-Iowa Park | 124 | 109 | 174 | 68 | 49 | 79 | .. | .. | .. | 56 | 60 | 95 | 1,972 | 3,316 | 4,085 | 471,100 | 783,580 | 1,211,595 |
| Knox County | 1 | .. | 1 | .. | .. | .. | .. | .. | .. | 1 | .. | 1 | ..... | ..... | ..... | ..... | ..... | ..... |
| Montague County | 76 | 189 | 251 | 59 | 148 | 177 | 3 | 6 | 13 | 14 | 35 | 61 | 2,290[6] | 6,067 | 7,031[221] | 2,304,400 | 2,484,365 | 3,458,085 |
| South Vernon-Wilbarger | 134 | 134 | 172 | 94 | 84 | 129 | 3 | 34 | 1 | 37 | 16 | 42 | 16,160[1] | 7,837 | 11,656[1] | 2,144,100 | 2,257,095 | 4,924,200 |
| Others | .. | .. | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 1 | ..... | ..... | ..... | 13,300 | f | f |
| Total | 739 | 1064 | 1609 | 422 | 625 | 904 | 8 | 44 | 24 | 309 | 395 | 681 | 29,954[9] | 43,044 | 59,984[237] | 13,142,500 | 16,877,430 | 32,020,340 |
| SOUTHWEST TEXAS— | | | | | | | | | | | | | | | | | | |
| Bee County | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | ..... | ..... | ..... | ..... | ..... | ..... |
| Bexar County | .. | 1 | 1 | .. | 1 | 1 | .. | .. | .. | .. | .. | .. | ..... | 2 | 2 | ..... | ..... | ..... |
| Caldwell County | 3 | .. | .. | 1 | .. | .. | .. | .. | .. | 2 | .. | .. | 2,500 | ..... | ..... | ..... | ..... | ..... |
| Dale | 12 | .. | 18 | 10 | .. | 12 | .. | .. | .. | 2 | .. | 6 | 918 | ..... | 3,646 | 162,400 | ..... | 68,000 |
| Duval County | 11 | 19 | 26 | 1 | 4 | 5 | 7 | 15 | 19 | 4 | .. | 2 | 10[105] | 660 | 690 | a | 24,525 | 29,125 |
| Jim Hogg County | 13 | .. | .. | 7 | .. | .. | .. | .. | .. | 6 | .. | .. | 710 | ..... | ..... | a | ..... | ..... |
| Laredo District | 13 | 28 | 45 | 7 | 13 | 23 | 4 | 12 | 18 | 4 | 3 | 4 | 2,930[78] | 658 | 1,170 | 1,162,700 | 2,687,605 | 4,440,280 |
| Live Oak County | 1 | .. | 3 | .. | .. | .. | .. | .. | 1 | 1 | .. | 2 | .....[60] | ..... | ..... | ..... | ..... | ..... |
| Luling | 1 | 3 | 5 | 1 | 3 | 5 | .. | .. | .. | .. | .. | .. | 25 | 155 | 220 | 2,441,950 | 3,203,142 | 6,072,815 |
| Lytton Springs | .. | 1 | 2 | .. | .. | 1 | .. | 1 | 1 | .. | .. | .. | ..... | ..... | .....[3] | 264,950 | 426,135 | 753,950 |
| San Patricio County | .. | .. | 4 | .. | .. | .. | .. | .. | 3 | .. | .. | 1 | ..... | ..... | .....[59] | ..... | ..... | ..... |
| Somerset | .. | .. | 1 | .. | .. | 1 | .. | .. | .. | .. | .. | .. | ..... | ..... | 4 | 137,550 | 260,800 | 425,050 |
| Val Verde County | 1 | .. | 2 | .. | .. | .. | .. | .. | 2 | 1 | .. | .. | .....[105] | ..... | ..... | ..... | ..... | ..... |
| Webb County | 4 | .. | .. | .. | .. | .. | 3 | .. | .. | 1 | .. | .. | ..... | ..... | ..... | d | ..... | ..... |
| Zapata County | 1 | .. | 2 | .. | .. | .. | .. | .. | 1 | 1 | .. | 1 | .....[81] | ..... | ..... | d | ..... | ..... |
| Wildcats | 11 | .. | .. | 5 | .. | .. | 1 | .. | .. | 6 | .. | .. | 355[10] | ..... | ..... | 691,100 | ..... | ..... |
| Others | .. | 3 | 14 | .. | .. | .. | .. | 3 | 14 | .. | .. | .. | ..... | ..... | ..... | 72,800 | 783,580 | f |
| Total | 74 | 55 | 123 | 32 | 21 | 48 | 15 | 31 | 59 | 27 | 3 | 16 | 7,328[428] | 1,475 | 5,734[121] | 4,241,550 | 7,385,787 | 11,789,220 |
| GULF COAST— | | | | | | | | | | | | | | | | | | |
| Barbers Hill | 1 | 1 | 6 | 1 | 1 | 4 | .. | .. | .. | .. | .. | 2 | 100 | 1,200 | 1,800 | 123,550 | ..... | 68,575 |
| Batson | 13 | 23 | 41 | 10 | 16 | 25 | .. | .. | .. | 3 | 7 | 16 | 443 | 1,033 | 4,070 | 245,350 | 292,110 | 532,870 |
| Big Creek | 10 | 15 | 26 | 7 | 11 | 22 | .. | .. | .. | 3 | 4 | 4 | 2,125 | 2 | 21,741 | 314,300 | 665,075 | 1,223,435 |
| Blue Ridge | 39 | 28 | 56 | 31 | 22 | 41 | .. | .. | 1 | 8 | 6 | 14 | 24,783 | 18,165 | 29,890 | 1,030,400 | 485,250 | 1,122,395 |
| Boling | .. | 1 | 3 | .. | 1 | 2 | .. | .. | .. | .. | .. | 1 | ..... | 600 | 835 | 435,050 | 402,830 | 791,255 |
| Damon Mound | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | ..... | ..... | ..... | 161,350 | 173,435 | 336,640 |
| Goose Creek | 15 | 27 | 47 | 12 | 17 | 28 | .. | .. | .. | 3 | 10 | 19 | 1,507 | 2,108 | 2,931 | 1,318,100 | 1,478,855 | 2,979,425 |
| High Island | 8 | 7 | 8 | 5 | 3 | 4 | .. | .. | .. | 3 | 4 | 4 | 2,150 | 1,785 | 1,815 | a | 427,885 | a |
| Hull | 34 | 45 | 82 | 24 | 35 | 62 | 2 | .. | .. | 8 | 10 | 20 | 8,840 | 23,901 | 40,114 | 2,128,000 | 3,453,040 | 6,220,530 |
| Humble | .. | .. | 1 | .. | .. | 1 | .. | .. | .. | .. | .. | .. | ..... | ..... | 3,696 | 252,700 | 714,047 | 1,158,300 |
| Nash Dome | 3 | 1 | 5 | 3 | 1 | 4 | .. | .. | .. | .. | .. | 1 | 3,490 | 350 | 1,560 | a | a | a |
| Orange | 27 | 26 | 47 | 19 | 20 | 34 | .. | .. | .. | 8 | 6 | 13 | 8,105 | 9,625 | 13,121 | 806,750 | 1,011,335 | 1,831,195 |
| Orchard (Moore's Field) | .. | 1 | 1 | .. | 1 | 1 | .. | .. | .. | .. | .. | .. | ..... | 300 | 300 | a | a | a |
| Pierce Junction | 46 | 41 | 77 | 37 | 34 | 61 | .. | 1 | 3 | 9 | 6 | 13 | 33,916 | 38,714 | 66,896 | 1,971,200 | 1,421,165 | 3,101,320 |
| Saratoga | 11 | 7 | 15 | 8 | 5 | 9 | .. | .. | .. | 3 | 2 | 6 | 341 | 29 | 108 | 194,600 | 208,920 | 405,030 |
| Sour Lake | 15 | 23 | 28 | 8 | 15 | 19 | .. | .. | .. | 7 | 8 | 9 | 590 | 7,284 | 8,359 | 639,800 | 883,195 | 1,634,700 |
| South Liberty | 6 | 16 | 18 | 5 | 11 | 13 | .. | .. | .. | 1 | 5 | 5 | 4,325 | 2,751 | 2,806 | 635,250 | 676,870 | 1,152,755 |
| Spindle Top | 30 | 75 | 145 | 22 | 45 | 95 | .. | .. | 1 | 8 | 30 | 49 | 17,204 | 82,961 | 147,953 | 7,086,450 | 11,598,075 | 21,584,795 |
| West Columbia | 3 | 4 | 7 | 3 | 3 | 4 | .. | .. | .. | .. | 1 | 3 | 770 | 3,810 | 3,910 | 1,516,900 | 1,859,825 | 3,535,140 |
| Wildcats | 80 | .. | .. | 13 | .. | .. | 1 | .. | .. | 66 | .. | .. | 7,988 | ..... | ..... | ..... | ..... | ..... |
| Others | .. | .. | 1 | .. | .. | .. | .. | .. | .. | .. | .. | 1 | ..... | ..... | ..... | 429,050 | f | f |
| Total | 341 | 341 | 614 | 208 | 241 | 429 | 3 | 1 | 5 | 130 | 99 | 180 | 116,677 | 194,618 | 351,905 | 19,288,850 | 25,751,912 | 47,678,360 |
| OTHER FIELDS | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | ..... | ..... | ..... | ..... | 1,245,065 | 1,748,485 |
| WILDCATS (All Sections) | .. | 271 | 509 | .. | 15 | 30 | .. | 9 | 28 | .. | 247 | 451 | ..... | 13,435 | 15,184[59] | ..... | ..... | ..... |
| TEXAS GRAND TOTAL | 2874 | 3887 | 6557 | 1525 | 2412 | 3861 | 184 | 159 | 323 | 1165 | 1316 | 2373 | 1,689,100[2206] | 709,425 | 1,825,223[3721] | 121,650.300 | 113,683,555 | 226,322,330 |

*—Large figures indicate oil in barrels and small figures indicate in millions of cubic feet.
a—Production included immediately below in "others."
b—Included under Crane County.
c—Includes Upton County.
d—Included in Laredo District.
e—Included under Montague County.
f—Production of miscellaneous fields in 1927 included above Grand Total in "Other fields."

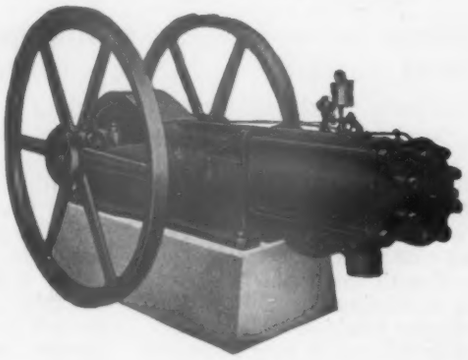
# Franklin Pumping Engines



## Oil Pumping Engine

Here is the power plant that has the fewest possible number of parts to require attention, adjustment, repairs or replacement. After you've finished drilling, move in one of the Franklin Oil Pumping Engines. Any user will tell you that it can be operated at an extremely low fuel, water and lubricating cost.

These pumpers come in 30, 40, 50 and 75 Horse Power. Can be equipped with Reverse or One Way Clutch.



## Gas Pumping Engine

After you've finished making hole, move your Drilling Engine to the next job and hook up a Franklin Gas Pumping Engine. Interchangeable on the same block without shifting a single bolt. These engines can show you a power, speed and flexibility almost unbelievable.

Say good-bye to the old "biler" and learn what real economy and freedom from trouble is like. Ask any Franklin user!

**FRANKLIN VALVELESS ENGINE CO.**
**FRANKLIN, PENNA.**

*Distributed by*

# Oil Well Supply Co.

*Branches in All Oil Fields*

# Cleaning Plant Makes Obnoxious Gas Useable

## Gulf Production Company installs Koppers process plant which removes hydrogen sulphide from West Texas gas with soda solution

*Staff Representative*
By JACK LOGAN

McCAMEY, Texas.—With the opening of the Big Lake field, Reagan County, and subsequently the fields in Crane, Upton, Winkler and other counties of West Texas, producers and pipe line companies were faced with the problem of handling gas containing from 10 to 13 per cent. hydrogen sulphide.

Obviously this gas is very poisonous and presents hazards throughout the fields which at any time may result in death, to say nothing of causing much loss through corrosion of equipment in the wells and of field equipment above the ground.

It is also very undesirable as fuel gas, and drilling, pumping, compressor and other sources of power using this gas give undue trouble. In fact, it is not economical to employ it for any use around the fields under existing conditions as long as it contains the hydrogen sulphide.

It would be possible, it is true, to use the gas for firing steam boilers, but its use for that purpose is precluded by the fact that the producers of the district are further faced with the problem of bad water. It is next to impossible to produce steam from the waters encountered there, and so the usual source of power is gasoline, gas or electricity.

Because of these bad conditions, and in view of extensive operations in the Church-Fields-McElroy pool, both actual and proposed, the Gulf Production Company decided to obtain some process by which the sulphide gas could be removed from the natural gas, so as to provide "sweet" gas for gas engines and for domestic consumption on the property.

After studying various methods for sulphide removal, it was decided to use the Koppers process—a process designed by the Koppers Company at Pittsburgh, Pennsylvania, in handling by-products in the manufacture of coke. It may be noted here that the plant which Gulf has constructed for the utilization of the Koppers process is the first one, insofar as information is available, to be used in an oil field anywhere.

The Koppers process is unique in that the soda ash solution which is used is regenerated after becoming partially saturated.

### Cleaning Plant

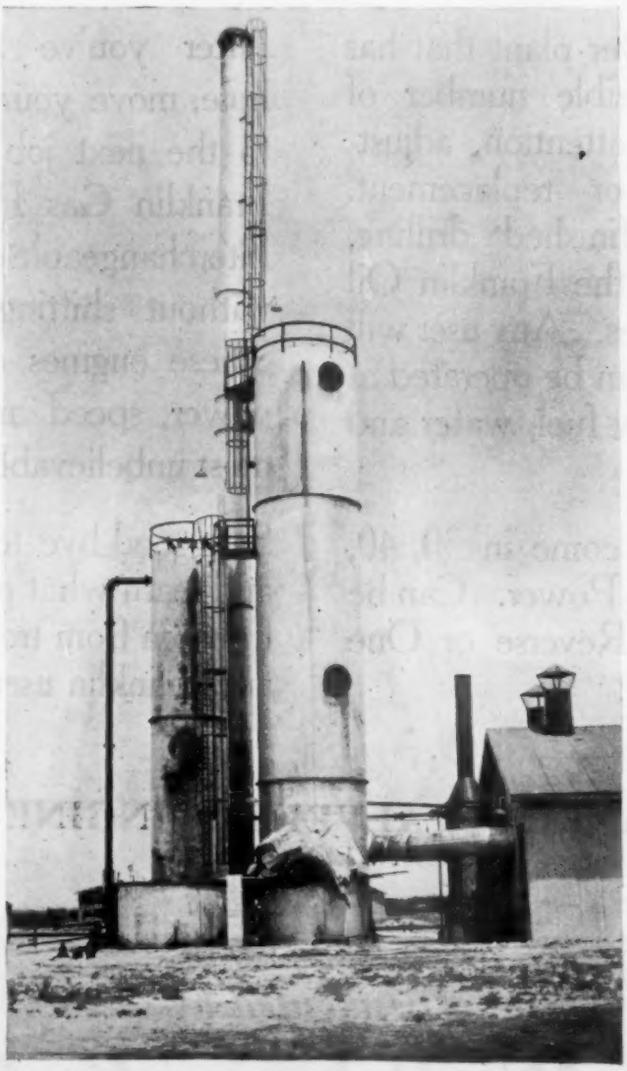
The plant, as constructed, will handle up to 750,000 cubic feet of natural gas per day. The process is essentially as follows, and may be readily understood by referring to the accompanying illustration:

The plant is made up of two steel towers, about eight or nine feet in diameter, one being 40 feet high and the other 60 feet; while a pipe, resembling a smoke-stack, is connected with the 60-foot tower, and extends to a total height of 100 feet.

Gas from the field enters the bottom of the 40-foot steel tower and passes upward, where it comes in intimate contact with a three per cent. solution of soda ash, the latter being introduced into the tower at the top through the pipe shown at the left in the picture. Going downward in the tower, the solution passes over baffle plates which allow it to come in contact thoroughly with the upward passing gas.

After making a single pass through the tower, 99 per cent. or more of the hydrogen sulphide is removed, and the purified gas is led off from the top of the tower. The spent washing solution is then pumped into the top of the 60-foot steel tower, and from there passes downward over baffle plates, meanwhile coming in contact with fresh air which is furnished through blowers. The fresh air enters the 60-foot tower near its bottom, through the pipe leading from the building to the tower. In its passage through this 60-foot tower the solution is re-generated; that is, it is made suitable for use again, and is pumped again to the top of the 40-foot tower.

The air which has passed up through the 60-foot tower, being made foul by taking up the hydrogen sulphide from the soda ash solution, then passes from the top of that tower into the 100-foot pipe through a connecting outlet, and is expelled into



*Gas Purifying Plant of Gulf Production Company on McElroy lease, Crane County, West Texas.*

# Dreadnaught
## Tubing Tongs

**Use them ratchet-wise, stroke after stroke. Sharp, hard, tough teeth that bite instantly and hold tenaciously. Jaws that can't crush. Made of electric steel; light but very powerful.**

# FRICK REID SUPPLY CORPORATION

Tulsa, Okla. • Pittsburgh, Pa.

STORES EVERYWHERE

**Alexson Machine Co.**
*Sucker Rods, Pull Rods, Plunger Working Barrels (Pumps) etc.*

**Beaumont Iron Works Company**
*Dreadnaught Rotary Equipment Water-Cooled Drawworks, Pumping Hoists, Traveling Blocks, etc.*

**Donovan Boiler Works**
*Oil Country Boilers and Tanks.*

**Frick-Reid Service Belting**
*Rubber Covered and Friction Surface.*

**National Transit Pump and Machine Co.**
*Power and Steam Pumps.*

**J. P. Ratigan**
*Grips, Clamps, Beam Hangers.*

**Joseph Reid Gas Engine Company**
*Gas and Oil Engines, two and four-cycle, Band Wheel and Direct Drive Pumping Powers.*

**Whitlock Cordage Co.**
*Manila Cordage, including Frick-Reid Manila Bull Ropes—same quality for ten years.*

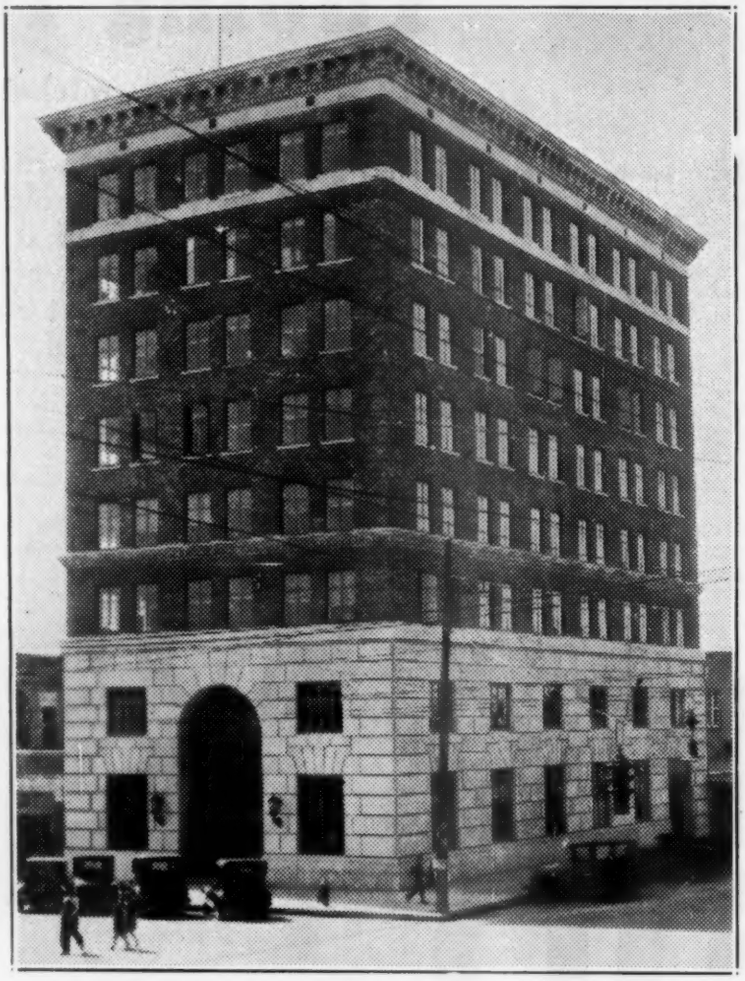
**Lapweld and Seamless Tubular Goods**

**Walworth Company**
*Valves, Fittings and Tools for Steam, Water, Gas, Oil and Air.*

**Rossendale-Reddaway Company**
*"Camel Hair" Beltings, Belt Clamps.*

**Engineering Crews**
*for the installation of Pumping Powers and related equipment.*

# *The "Oil Bank" of West Texas!*



OUR NEW HOME

***Rendering a Complete Financial Service to the Petroleum Industry in This Territory***

OFFICERS

M. L. Mertz, *President*
Chas. W. Hobbs, *Vice President*
R. A. Hall, *Vice President*
H. O'Bannon, *Cashier*
L. D. Thorn, *Ass't Cashier*
A. B. De Montmollin, Jr., *Ass't Cashier*

# San Angelo National Bank

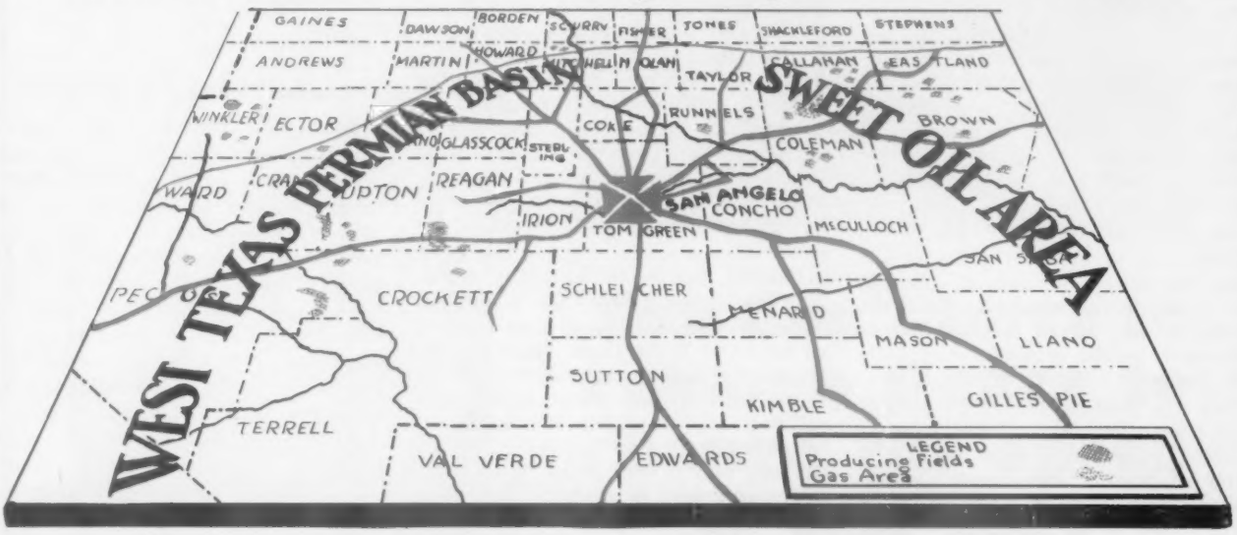
SAN ANGELO, TEXAS

*"The Bank That Service Built"*

*Say you saw it in The OIL WEEKLY*

# ✣ marks the spot!

*from which this territory may best be served.*




## ✣ represents SAN ANGELO

the only operating headquarters for both the West Texas Permian Basin and the Sweet Oil Area.

**✣ marks the spot!**

selected by over 75% of West Texas operators after careful consideration of their headquarters location for the West Texas territory.

**✣ marks the spot!**

where ample housing facilities, low living expense, fine climate and high moral atmosphere furnish residential appeal and join hand in hand with banks that understand the oil man's problems, legal connections of unquestionable standing and immediately available office and warehouse facilities in fostering the title for San Angelo of "Headquarters City of Southwest Texas."

**✣ marks the spot.**

offering hunting, fishing in cool clear running water, swimming, golfing and a most acceptable social program for the relaxation of the oil field operator.

✣ *Ground broken for a new 14-story hotel of 225 rooms on July 8th. Watch San Angelo grow.*

***Write for data you desire***

## BOARD OF CITY DEVELOPMENT

# San Angelo, Texas

the air at an altitude where it can not do any damage.

### Cost

The cost of the soda ash amounts to about two and one-half cents for treating 1000 cubic feet of gas, and outside of that cost, the only expense is depreciation on the plant and the time which is required for its care. The latter item, however, is very small, as the entire operation is practically automatic, requiring very little attention other than adding some make-up solution every day. As it actually works out, one man operates the plant, using only a small part of his time for that particular work and performing various other duties.

The cost of the plant was about $50,000; and of course the larger the plant, the lower the cost of treating each thousand feet would be. And the operating cost, in so far as labor is concerned, would increase very little with increased capacity of the plant.

This gas treating plant of the Gulf Production Company is located on its McElroy lease, at a point about the center of Section 198, Crane County. It is also very near the center of Gulf's leases in the field. The Gulf holdings there comprise about 15 sections in a single block, most of which is proven for production. It was this circumstance, the extensive proven acreage, which justified the installation of the plant for treating the gas. Other companies, holding smaller leases, and those whose leases are more or less scattered, are not so favorably situated for the installation of plants so expensive.

### Fuel Supplied

With the gas which it treats daily in this Koppers plant, the Gulf Production Company operates about a dozen pumping wells, supplies a compressor station which the company uses for air lift in the field, and takes care of the domestic requirements throughout its camps. In addition, the company is shipping in 20 more gas engines to be be used for pumping. When they are installed, the gas purifying plant will be drawn upon to the extent of its capacity.

Besides the scientific plant which Gulf is using, there are numerous small home-made installations scattered over the West Texas fields for the purpose of taking the sulphur out of the gas, all of them using caustic soda solution for absorbing the hydrogen sulphide; but in spite of these various treaters, only a very small part of the gas of the field is utilized. Even the Gulf plant described above is capable of handling the gas from only about one well.

The remainder of the gas of the fields is burned. All the gas which is not utilized by removing the hydrogen sulphide is led, after passing the separators, to points removed some distance from the wells, and is there ignited through old-time flares. In the Church-Fields-McElroy pool, several hundred of these flares can be seen burning day and night, the chief purpose of burning the gas being to dispose of the hydrogen sulphide in order to prevent poisoning and the corrosion of machinery and equipment in the field.

## Utah Gas Franchise

Salt Lake City, Utah. — Interests identified with the Ohio Oil Company seem to have failed in their effort to reach an understanding with the local interests which own the manufactured gas franchises, and so have decided to appeal directly to the municipalities in Utah for the franchises necessary. Beside the Ohio those interested in the pipe line project, which would bring gas from the South Baxter Basin and Hiawatha Dome fields in Wyoming to the Utah cities, are the Lone Star Gas Company of Texas and the Columbia Gas & Electric Company of New York City. Franchises will be asked in Salt Lake City, Ogden, Provo, and other cities. It is estimated that the line will cost approximately $15,000,000. Ohio Oil Company and the other companies interested have developed some four hundred million cubic feet of gas.

## Hiawatha Deep Test

Denver, Colo. — A deep joint test of Hiawatha Dome will be drilled this summer by Texas Production Company, Ohio Oil Company, Sormir Petroleum Company and Reiter-Foster Oil Corporation. This deal is important in that it marks the entrance of the unit operation on a new structure in the Rocky Mountain region. This system has been extensively in practice in Mid-Continent fields and its practical operation will be watched with interest by the operators in the Rocky Mountain region. The well will be on the Colorado side of the structure, in Moffatt County.

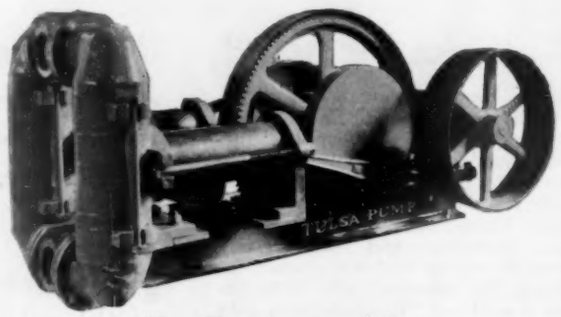
## Cowley County

Ponca City, Okla. — Barnsdall Oil Corporation's Thurlow 2, in the northwest of the southeast of the northeast of Section 7-33s-3w, Cowley County, flowed 100 barrels in nine hours July 19, following a 10-qt. shot. Silicious lime was topped at 3484½ feet and drilled to 3495 feet.

The well is a west offset to Roberts 1 of Barnsdall, which extended Rainbow Bend field slightly to the north several months ago.

After shutting down four hours the hole filled 1000 feet with water, which was believed to be coming from above the pipe.


SERVICE




SERVICE

*"It will make your dollars have more cents."*

We present the new Tuco Pump. It will solve your pumping problems, reduce operating costs and pay for itself in a short time by eliminating delays and idle time. We guarantee it to be satisfactory.

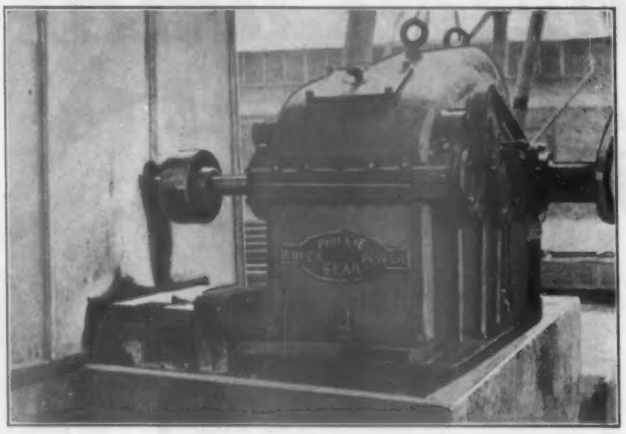
An old principle in a simple new construction. Built of best materials. Few wearing parts. No priming. No packing but cups. No stuffing box. Nearer perfect vacuum. Greater efficiency: No repairs. More economical. Buy a Tuco and save its cost.

Duplex eight inch stroke. Four inch cylinders. 50 to 75 R. P. M.—50 to 75 gallons per minute. Constant two inch flow. 300 lbs pressure. No adjustable parts. New cups and valves replaced in a few minutes. Suitable for water, gasoline, hot or crude oil, B. S. and slush. Investigate the Tuco and you will buy it.

*Manufactured and sold by*

**THE TULSA PUMP COMPANY**

Office—320 East 4th St., Tulsa, Oklahoma



# You don't have to remove Gears to change the speed of this Unit

The mere "turn of a plainly marked HAND-WHEEL" on the outside of the casing tells which speed is in use.

THE PHILADELPHIA OIL WELL PUMPING UNIT is of the rugged DOUBLE REDUCTION TYPE and gives the necessary LOW PUMPING SPEED and the HIGH CRANK or SPROCKET SPEEDS (for re-drilling or completing and for driving the Rod and Tubing Hoist.)

PHILADELPHIA UNITS are the only ones which possess this exclusive and simple HAND-WHEEL CONTROL OF SPEEDS. They are built from 50 YEARS GEAR MAKING EXPERIENCE—and are compactly and accurately constructed to give Long Service Life. Further, they are impervious to Dust, Dirt and Moisture, and on account of being "unitized," can be transported with comparative ease.

*"Send for interesting ILLUSTRATED BULLETIN."*

Main Office and Plant Erie Ave. and G St. Phila., Pa.

**PHILADELPHIA GEAR WORKS**

Manufacturers of Industrial Gears and Speed Reducing Units

**Mid-Continent Distributors**

**Petroleum Electric Co., 217 E. Archer St., Tulsa, Okla.**

Philadelphia Gear Works, Erie Ave. and G St., Phila., Pa.

Gentlemen: Please send me Bulletin and details of your new Oil Well Pumping Unit.

Mr. ..... Title .....

Firm .....

Address .....

O. W. 7-28

# here's what happens in the West Texas fields

[ *The accompanying picture shows the devastating corrosion that takes place in the bottom, sides and top of your tanks in the West Texas fields. This particular photograph was made from a section of tank bottom that had been in used just one year.* ]

AND this is just what is happening to your tanks and all other tanks in West Texas which are subject to the sulphuric condition that exists in the oils of that section. Many tanks have been eaten out in thirty days which means a tremendous expense to the operator and one which can be easily avoided.

Our engineers have spent years in research work on the problem of protecting tanks against the heavy loss which entails from corrosive oils. Their findings are not guess work. This is a major problem with us and we have tried to solve it for the operator in the West Texas fields with the result that we have produced a CORROSION RESISTING TANK that will literally add years to the life of the tank. Many tanks used in this territory which are designed to last twenty years are worthless at the end of two to five years. Our treated tanks have actually doubled the life over untreated tanks in the sulphur districts. The final test on our tanks has been made under the most severe conditions which exist in any part of the territory.

*The Butler Mfg. Bolted Tanks,* for which we are West Texas distributors, are not only in good condition after remarkably long periods of time but, at the end of that time, the maintenance cost can actually be shown to be less than half the usual cost of tank maintenance. Our engineers can show you positive evidence that we can save you 25 per cent annually on your oil field storage equipment.

We also distribute Sulgaspru, a sulphur gas resisting House Paint, Corrosion Resisting Tank Paints, and Underco, the perfect Pipe Line Coating.

CORROSION RESISTING PAINTS
PORTABLE STEEL BUILDINGS
TREATED OIL FIELD TANKS

BRANCHES
Ft. Worth, Tel. 2-9713.
Best, Tel. 13.
McCamey, Tel. 3.
Pyote, Tel. 52.
Roswell, N. M.

*We maintain a trained service department for the benefit of tank users in our territory. This service is at your disposal at any time and our engineers will be glad to show you how to overcome your tank troubles.*

DRANE-HUMPHREYS COMPANY Inc
SAN ANGELO, TEXAS TELEPHONE 1801

# In West Texas or out of Texas

**Butler Bolted and Welded Tanks and Steel Buildings are on the job *right in the field.***

The Butler job is to help the man on the job where oil is being produced or prospected for.

Butler Welded Tanks are recommended where field conditions permit. Throughout, they are securely welded. They are tested under air pressure. Butler Bolted Vapor Pressure Tanks are recommended in other places. They are designed to withstand a pressure of two pounds and a vacuum of four ounces in all sizes, 14′ 11″ in diameter and smaller, and a pressure of one pound and no vacuum in sizes, 21′ 1″ in diameter. The "Oil Field Tanks" Catalog fully describes these products.

*Butler Welded Oil Field Tank*

The sizes and position of all holes in Butler Bolted Tanks are dependable. Powerful machinery punches all holes. The number of sheets and seams in one tank is reduced because Butler sheets are large. Fewer leaks result. Less handling is necessary. The cleanout is 2′x4′. *All bolts are removable from the outside!* The Butler Bolted Tank is fully described in the "Oil Field Tanks" Catalog. Send for copy.

*Butler Bolted Tank*

Especially, right in the oil field Butler *Ready-Made* Steel Buildings are doing a good job. They are used as gasoline plants, compressor houses, engine houses, power houses, belt houses, warehouses, etc. They are convenient and economical. They are made for permanence, but may be dismantled, moved and re-erected with practically 100% salvage. They are made of 24 gage tight coated galvanized steel with deeply drawn paneled corrugations for extra strength and stiffness. The Complete Building Catalog will be sent on request. Ask for a copy today and see how other oil men are using this type of building.

*Butler Ready-Made Steel Building*

TRADE STEEL BUTLER PRODUCTS MARK

**Butler Manufacturing Co.**

KANSAS CITY MO. MINNEAPOLIS, MINN.

*Butler Products include: Ready-Made Steel Buildings, Cans, Funnels, Buckets, Measuring Pumps, Truck Tanks, Underground Tanks, Storage Tanks, Bolted Tanks, Etc. Also pipe that can be used as conduit, double well casing or in other ways.*

*Say you saw it in The OIL WEEKLY*

# Long Beach Wells Holding Near Initial Output

## Production takes rise during last week although completions were small; Hawthorne-Lawndale area recognized as real oil zone

By BRAD MILLS
*Staff Representative*

LOS ANGELES. — Long Beach continued its up-and-down antics during the past week, finally coming to rest on the crest of a production wave equal to any that has swept the field since the first of June. With production hovering around 204,000 barrels and at least 40 wells due for completion during the next month, it seems that efforts to bury the field have been untimely. The average initial production of the 11 wells completed last week was less than 1000 barrels, but the decline of the deep wells was only 6000 barrels, as compared with about 9000 barrels during previous weeks. This smaller decline is considered very important and means that a larger field production is possible if drilling wells are completed on schedule.

To some, Long Beach appears more dangerous right now than at any time since January 1. Several favorable developments have temporarily turned the tide upward and for the moment production does look higher. The complexion of the situation has changed several times since February 1 and whether the present rosy streak continues or runs into another slump depends largely upon the future rate of completions. A dozen large completions during two consecutive weeks probably would send production to 212,000 barrels, or even higher, but a slump similar to the one encountered soon after the first of the year would have the opposite effect. A careful analysis of the various estimates of future production shows that a production of 210,000 barrels may be reached before the trend is turned definitely downward. There is every evidence that the field will see-saw around 200,000 barrels for fully two months. One of the major companies estimates a peak production of 220,000 barrels before October 1, while at least one large company believes, for all practical purposes, that the peak has passed. The field is now in the midst of a "bull and bear movement" and only the future will unravel the mystery.

### Output From Deep Zone

Production from the deep zone has reached 144,000 barrels from 163 wells, the remaining 60,000 barrels coming from 552 old producers.

The tendency of some of the recent completions to produce at near their initial rate is causing much favorable comment, some notable examples being Dabney-Johnston's No. 8 and George F. Getty's Nos. 21 and 22. The Dabney-Johnston well was completed 10 days ago as a 3500-barrel producer and is now flowing 3400 barrels. Getty's 21 is still flowing 1600 barrels, as compared with 1700 barrels initial, while No. 22 is producing more than 3200 barrels, against an initial production of 3400 barrels. The Getty wells were completed at 7311 and 7300 feet, respectively, with the final casing shutoff at 6804 and 6965 feet.

Shell's Nicholson 5 grabbed the spotlight during the week, showing a rich oil sand below 7500 feet. The last cores taken at 7533 feet broke all previous records in Long Beach drilling, the deepest previous well having been completed at 7503 feet.

### Status of Development

The following table shows the status of development as of July 23:

| | |
|---|---|
| Drilling 0-4000 feet | 53 |
| Drilling 4000-5000 feet | 32 |
| Drilling 5000-6000 feet | 56 |
| Drilling 6000-7000 feet | 36 |
| Drilling 7000-8000 feet | 6 |
| Ready to complete | 7 |
| Total | 190 |
| Rigs and locations (active) | 41 |
| Grand total | 231 |

### Week's Completions

Completions during the week were:

California-Eastern Oil Company's Marine 7, initial production 150 barrels, total depth 6005 feet (plugged to 5505 feet), gravity 26.7, cut 1.0 per cent.

D'Angelo Oil Company, No. 3, initial production 2700 barrels, total depth 5907 feet, gravity 28.0, cut 1.0 per cent.

Jergins Syndicate, White 3, initial production 400 barrels, total depth 6421 feet (plugged to 6180 feet), gravity 26.4, cut 5.2 per cent.

McKeon Drilling Company, Deeds 1, initial production 1700 barrels, total depth 6829 feet, gravity 30.0, cut 1.5 per cent.

Richfield Oil Company, Augustine 2, initial production 500 barrels, total depth 6876 feet (plugged to 6800 feet), gravity 27.5, cut 0.3 per cent.

Richfield Oil Company Harlow 2, initial production 400 barrels, total depth 6343 feet, gravity 28.0, cut 7.0 per cent.

Shell Company, Cresson 10, initial production 1300 barrels, total depth 6741 feet, gravity 30.0, cut 2.8 per cent.

Shell Company, Jones 7, initial production 1000 barrels, total depth 6840 feet, gravity 25.0, cut 26.0 per cent.

Shell Company, Jones 8, initial production 500 barrels, total depth 6762 feet, gravity 27.0, cut 18.0 per cent.

The Texas Company, Griswold 1-2 (workover), initial production 500 berrels, total depth 6721 feet, gravity 31.0, cut 1.6 per cent.

Warren and McCrates, Neet 2, initial production 1500 barrels, total depth 5850 feet, gravity 28.5, cut 1.1 per cent.

### Hawthorne-Lawndale Recognized

Formal recognition of the new Hawthorne-Lawndale field has been made by many of the major companies, following a two weeks' test of the San Clemente Oil Company's discovery well on Section 20-3-14, which is still flowing at the initial rate of 250 barrels through a very small bean. The oil is clean and tests about 35 gravity. The usual excitement prevails in the district, but no definite development program has been announced by any company. A part of the field apparently lies in the townlot area, but intensive drilling is not anticipated unless larger wells are completed.

Failure of Petroleum Securities' Naples 2 has put a still deeper crimp in deep sand activities in the Seal Beach field. The well was completed at 6955, with a string of 4¼-inch casing cemented through perforations at 6835 feet. The test was made as an experiment to determine the possibilities of the extreme lower part of the sand. The well is producing only 100 barrels on the compressor, the oil showing a cut of 22 per cent. Other wells completed in the deep sand have included from 200 to 500 feet between 6000 and 6600 feet.

### Deepening Campaign at Huntington Beach

Huntington Beach still continues a major factor in Los Angeles Basin production and will be for several years, but the immediate outlook for new wells is very poor. The recent completion of two good wells near the

# The LARKIN Improved SAND PUMP

## Manufactured Only at Butler, Penna.

## Furnished with either or both of these bottoms

**LARKIN REGULAR BOTTOM**

**LARKIN BIT BOTTOM**

## *—is giving satisfaction everywhere*

The LARKIN Improved Sand Pump is flexible, in that it operates successfully at all depths—under all conditions. Under normal conditions this Pump will, when equipped with its REGULAR Bottom, bring out the sand and sediment in record time.

Where cavings have packed hard, the Larkin Bit Bottom may be used. It will break up the hard formations efficiently, and so quickly pass the material through to the pump, that the pump may be operated at full capacity without being delayed to any extent, even by the worst conditions encountered. If you want to be prepared to meet the toughest pumping jobs with the best pump, get the Larkin and have it equipped with either the Regular or Bit Bottoms.

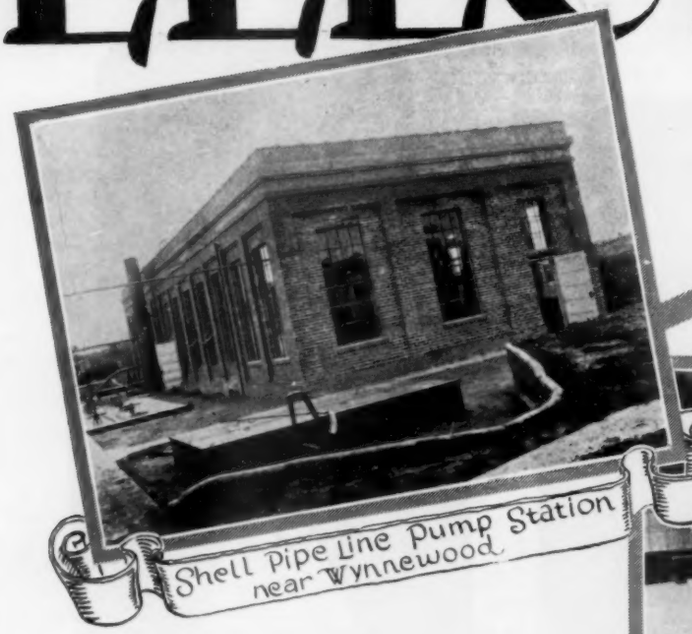
The LARKIN Improved Sand Pump will clean out more wells, for more years, than any sand pump made. Its Barrel is of "NATIONAL" Seamless Steel Tubing. In every detail of construction, the materials used are unexcelled for quality.

There is no better equipment than this Larkin Leader. It has been made at Butler, Penna., for years. It is still made there and there only. Even more today than when the Eastern fields were young, it is the leading sand pump on the market.

*Write for Circular and Price List*

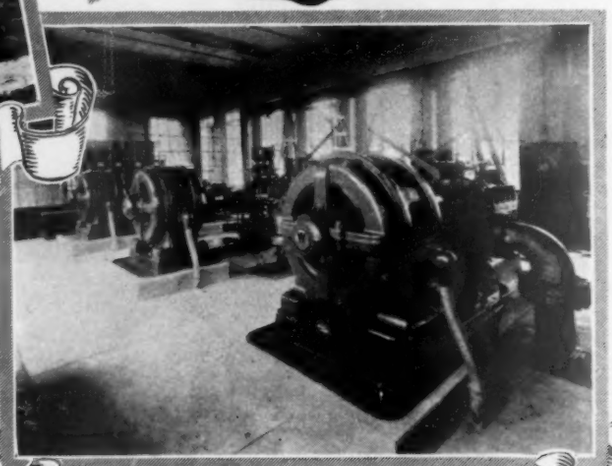
## LARKIN & CO., Butler, Penna.

# Shell Pipe ELECTRIC



Shell Pipe Line Pump Station near Wynnewood

SHELL



Interior view Showing three 400 Horse Power Motors

BYLLESBY
OKIAHOMA GAS AND ELECTRIC COMPANY
PIONEERS IN PUBLIC SERVICE

## OKLAHOMA GAS AND

J. F. OWENS, *Vice Pres. and General Manager*

*Say you saw it in The OIL WEEKLY*

# Line uses POWER~

SHELL Pipe Line Company's use of ELECTRIC POWER in pump stations for the new 10-inch main pipe line between McCamey, Texas, and Cushing, Oklahoma, adds another outstanding endorsement of the efficiency of this power medium.

The new line is approximately 400 miles long and will be completely electrified. Oklahoma Gas & Electric Company, together with other power companies, provides electricity for the fourteen pipe line stations along the entire 400 mile line. Each station has three 400 H.P. motors directly connected to centrifugal pumps. The capacity of the line is in excess of 35,000 barrels daily.

Today, ELECTRIC POWER has won an important place as a power medium. In addition to Shell Pipe Line such companies as Carter, Magnolia, Empire, Tidal-Osage, Prairie, Texas, Oklahoma Pipe Line, Phillips Petroleum, Roxana Petroleum, Shaffer Oil & Refining, Sinclair Pipe Line, Cosden, Amerada, Gulf Pipe Line, T. B. Slick, Inc., and I. T. I. O. Co., all have ELECTRIC POWER installations. *The big companies know what they are doing.*

***For further information in detail, address***

**COMMERCIAL DEPARTMENT**
**OKLAHOMA GAS and ELECTRIC COMPANY**
**OKLAHOMA CITY, OKLAHOMA**

## ELECTRIC COMPANY

*Courteous, Personal Attention to Every Customer*

*Say you saw it in The OIL WEEKLY*

edge of the field probably will result in the deepening of old producers which stopped in the intermediate producing zone.

The Wilshire Oil Company's Buckbee 1, which has been shrouded in the darkest secrecy since it was started for the suspected deep zone in the Santa Fe Springs field, has the scouting fraternity worked up to a fever pitch over several dozen wild rumors that have been circulated during the past week. The company ran a string of 5 3-16-inch casing for a test, but apparently no perforated was used. The total depth is estimated at 5960 feet, with the 5 3-16-inch string landed around 5780 feet. Judging from preparations, the company is planning an open-hole test. Gas traps have been installed and a large flow line connected. About 400 sacks of cement was used. In the absence of official reports from the company, only approximate figures are available.

### Ventura Production Up

Production in the Ventura field took another sharp rise during the past week, following the completion of Shell Company's Taylor 26 as a 5500-barrel producer from 6900 feet. The action of the well brings the edge leases near the southern part of the field still more in the limelight, coming as it does just after completion of a similar well on the Petroleum Securities Company's Orton lease. The oil is showing only a very small cut. Gas production is almost four million cubic feet, an unusual amount for this part of the field Taylor 26 illustrates the wisdom of conservative field development, few fields being able to yield 5500-barrel wells several years after discovery.

The M. K. and T. Oil Company's Foster 1, which recently gave geologists a severe jolt, is still producing more than 1000 barrels of oil in addition to 500 barrels of free water. The well is located several hundred feet outside of what was considered the maximum producing limit of the Ventura field, and apparently discloses a faulted condition along the extreme southern part of the field. One well is not sufficient evidence that such a condition exists, however, the leases adjoining the M. K. T. Oil Company property remaining somewhat questionable until further drilling is done. The theory that Foster 1 is located on a separate structure has been scouted on all sides, even though production was found at what was termed an "impossible' 'level. The well is located so close to the Ventura field that even a miniature structure could not lie against the parent fold, and besides, surface indications show conclusively that the flank of the structure extends considerably beyond the M. K. and T. well. Foster 1 and its indirect offsets, Shell Company's Taylor 26 and Petroleum Securities Company's Orton 6, give the southern part of the field a very rosy future. M. K. and T. Oil Company will drill another well to prove that Foster 1 was not a freak completion.

The Miley Oil Company's determined effort to obtain production in a very deep sand and the "feeling around" in the upper sands by the various companies continue to hold the center of interest in the Rincon field. Miley has attained a depth of 6130 feet in Hobson 2 and occasional streaks of rich oil sand have been far too thin to offer much hope of production. The present formation is running to shale with thin streaks of oil sand. A very promising formation found just above 6000 feet showed some resemblance to the Lloyd zone, which is so productive in the Ventura field, but deeper drilling disclosed the same condition that existed the greater part of the distance between 4000 and 5700 feet. If present rough correllations are correct, the Lloyd bone should be found around 6300 feet, according to geologists who have compared the two fields. Although the 3000-3200-foot zone never offered much promise, the operators are beginning to creep a little deeper with wells that have shown a decided tendency to fall off. They are including a comparatively new zone in an effort to maintain at least the production obtained in the upper sand. The few wells that have been deepened failed to make an impressive showing. however, and there is little likelihood that a rush will be made for a sand equally as questionable as the first one discovered after a long and tedious search. Pan American Petroleum Company's State 1, deepened to 3685 feet, started off at a 250-barrel rate, but General Petroleum Company's Hobson A2 made a much less impressive showing from 3525 feet, producing less than 100 barrels on the initial test. These re-completions add some value to the field, showing that it may be possible to include as much as 500 feet of sand, where the original wells were produced with less than 100 feet. The gas pressure is unmistakably weak and a large production from between 3000 and 4000 feet does not seem probable.

### Compressor Boosts Midway Well

By increasing the compressor capacity, Chanslor-Canfield Midway has raised production in its No. 29, Section 8-32-23, to 1100 barrels, giving the deep sand in the southwestern part of the Midway field all the ear marks of a major producing zone. The well was completed a month ago with an initial production of 650 barrels, but the gas pressure was too low for a satisfactory flow. The fluid level proved ideal for compressor use. The company is completing No. 4, Section 7-32-23, but the well is not as promising as either No. 29 or the Republic Petroleum Company's discovery well on Section 8-32-23. The oil sand did not extend to the bottom of the hole, although several hundred feet will be included in the production test. The upper part of zone compared favorably with that found in the other wells, and apparently contained oil enough to make a good well.

### Dry Holes in West Texas District

(Continued from page 105.)

square miles, and 43 wildcat failures were added, as compared to only 19 during the previous 12 months. Only two of Pecos County's late crop of failures were carried below 4000 feet, while 18 were abandoned between 2000 and 3000 feet, and 15 1000 and 2000 feet. Other than a few tests making small showings of oil and gas followed by heavy sulphur water flows, little encouragement was had in making a new field discovery in Pecos County, such being a companion case to Reagan County. The latter county contributed the Big Lake field in May, 1923, from the first test drilled in the county, and only one small pool has since been discovered, although 66 wildcat failures have been completed. However, Pecos had many dry holes before the discovery of the prolific Yates shallow field.

### Crockett County

Crockett County carried off second high honors on wildcat failures during the last 12 months largely because of efforts to locate another Yates field on the east side of the Pecos River after a little production was established on the east bank, and finished the period with 26 dry holes. The uncertainty of the producing limits of the World-Powell field also was responsible for the above total being increased, as a southwest extension to the producing area led to the belief that the original pool might be a "finger" on an important producing field. Twenty-one of Crockett County's failures were abandoned between 1000 and 3000 feet.

Upton County passed out of the picture as a wildcatting area during the year with only 10 failures and no strikes, as compared to 34 failures during the previous period. Jones County also registered a sharp decline in wildcatting by completing 13 failures during the past period as compared to 25 during the previous year, but wildcat work has been revived to a limited extent by the opening of two nearby oil areas to the north of the Noodle Creek field, which gave the impetus to wildcat drilling in the previous year.

Contrary to expectations, the exploration of the deeper horizons in the wildcat areas was not practiced as much as the previous 12 months, and most failures were plugged between the 2000 and 3000-foot levels. The comparison is shown in the accompanying table. However, six tests were carried below the 5000-foot level, including Magnolia's 6725-foot failure in Val Verde County, during the past year, or twice as many as the previous period. The holding of tests in the semi-shallow horizons is largely due to the large quota of failures contributed by Pecos and Crockett Counties, where shallow production similar to the Yates field was being pursued.

# Drilling an oil well costs real money. A bad piece of pipe may spell disaster—*Why take chances?*

J&L PIPE

B-R

*Two marks of Quality*

## Specify—

# J&L

## *Seamless* API CASING

**10 REASONS WHY!**

1. Accurately true to API standards.
2. Uniformly high tensile strength.
3. Long *uniform* lengths.
4. Seamless steel couplings electro-galvanized to prevent galling.
5. Accurate and uniform wall thickness.
6. Each piece rigidly tested and inspected through all stages of production.
7. Couplings machine-checked for alignment.
8. Manufactured by the automatic process.
9. All production processes are controlled by one manufacturer from iron ore to finished product.
10. Stocked and distributed on the Pacific Coast by the Baash-Ross Tool Company.

*Remember these points about J&L—"The Pipe that Makes Friends."*

THE operator must have absolute confidence in the pipe furnished him for casing-in. Through experience he has learned that all pipe is not the same. It is important, therefore, that you know the qualifications of the company making the pipe you use.

The Baash-Ross Tool Company recommends JONES & LAUGHLIN Seamless Casing because it is made by one of the oldest and best known companies in the iron and steel industry. From the mining of the ore to the final testing of the finished product, the manufacture of J & L Pipe is under the control and direction of one organization—with three-quarters of a century of successful experience in the manufacture of iron and steel products.

*Write, Telephone or Telegraph Your Inquiries and Orders.*

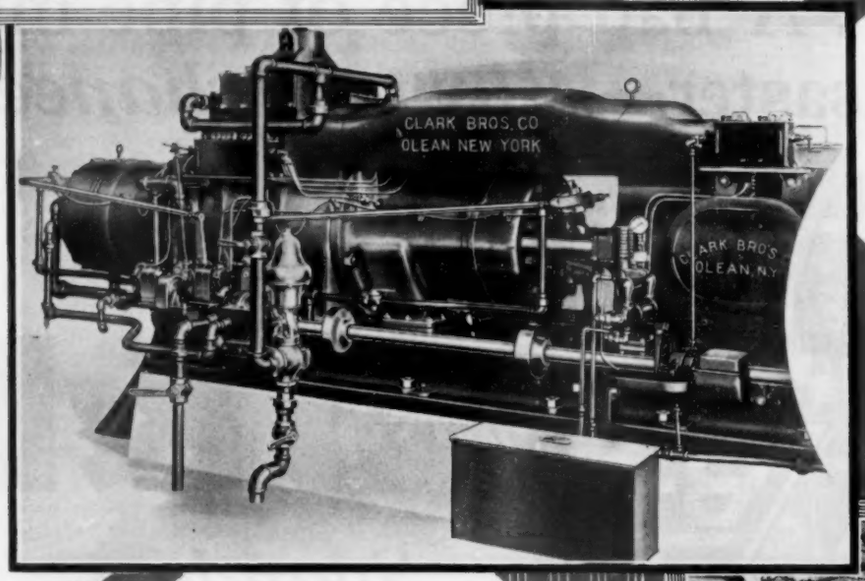
## BAASH-ROSS TOOL COMPANY

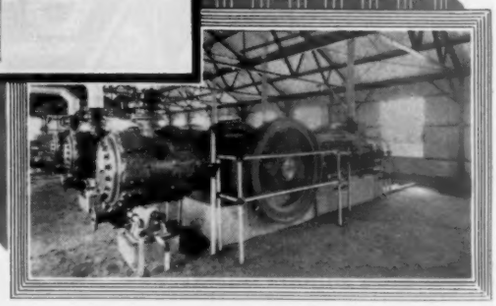
General Offices and Plant—*Los Angeles, California*

*Delivery of your immediate requirements from the Wilmington Yards of the* Baash-Ross Tool Company

LOS ANGELES ADDRESS
5512 Boyle Ave.—P. O. Box 1110, Arcade Station
*California Branches and Field Shops:*
LONG BEACH — BREA — TAFT — VENTURA
*New York Office*—30 Church St. *Houston Office*—1816 Nance St.

# CLARK DOUBLE ACTING GAS ENGINE



# Costs Less Per H.P.

for
—Engine
—Foundation
—Freight
—Hauling
—Buildings
—Piping, etc.

The CLARK Double Acting Gas Engine secures a driving impulse in both directions of crosshead travel for every revolution. It does this without having piston rods in the hot combustion chamber—therefore without having troublesome water-cooled piston rods and stuffing boxes.

The double action gives twice as much power with practically the same floor space and without increasing the pressure on the crank and crosshead pins. Only half the number of engines are required. Engine and parts do not become excessively heavy.
The money saving features of this remarkable new engine merit your immediate investigation. Made in 200 H. P. single and 400 H. P. twin.

Address, Clark Bros. Company, Olean, N. Y. Branches and Warehouses: 125 W. First St., Tulsa; McCamey and Sweetwater, Texas; and Artesia, N. M. California Branch: Smith Booth, Usher Company, 228 S. Central Ave., Los Angeles and 50 Fremont St., San Francisco.

The famous CLARK "Super-2" Cycle design gives *fuel economy* equal to the most efficient 4-cycle engine, with *2-cycle simplicity.*

# CLARK

*Say you saw it in The OIL WEEKLY*

# Big Drilling Campaign Underway in South Little River

By WALLACE DAVIS
*Staff Representative*

TULSA.—South Little River field's possibility for a new flood of oil holds the limelight of the entire Mid-Continent region as it enters a drilling orgy equal to any previous rush undergone in Greater Seminole. It is opening the way for the next comeback so common with this chain of market breaking pools, but this time proration measures are destined to keep it out of the dangerous class. The definite maximum placed on the field is 125,000 barrels, details of which are to be worked out prior to September 10.

On July 21 there were 132 locations staked, with more than 80 per cent of this number drilling. Three others were being made, and are included with the active locations on the accompanying map. A Corporation Commission order provides that none of these wells now drilling shall produce in excess of 100 barrels daily before August 15, the same rule applying to discovery wells in the area now producing. After August 15 wells may be opened to produce 1600 barrels to the 40, or 800 barrels to the 20-acre tract.

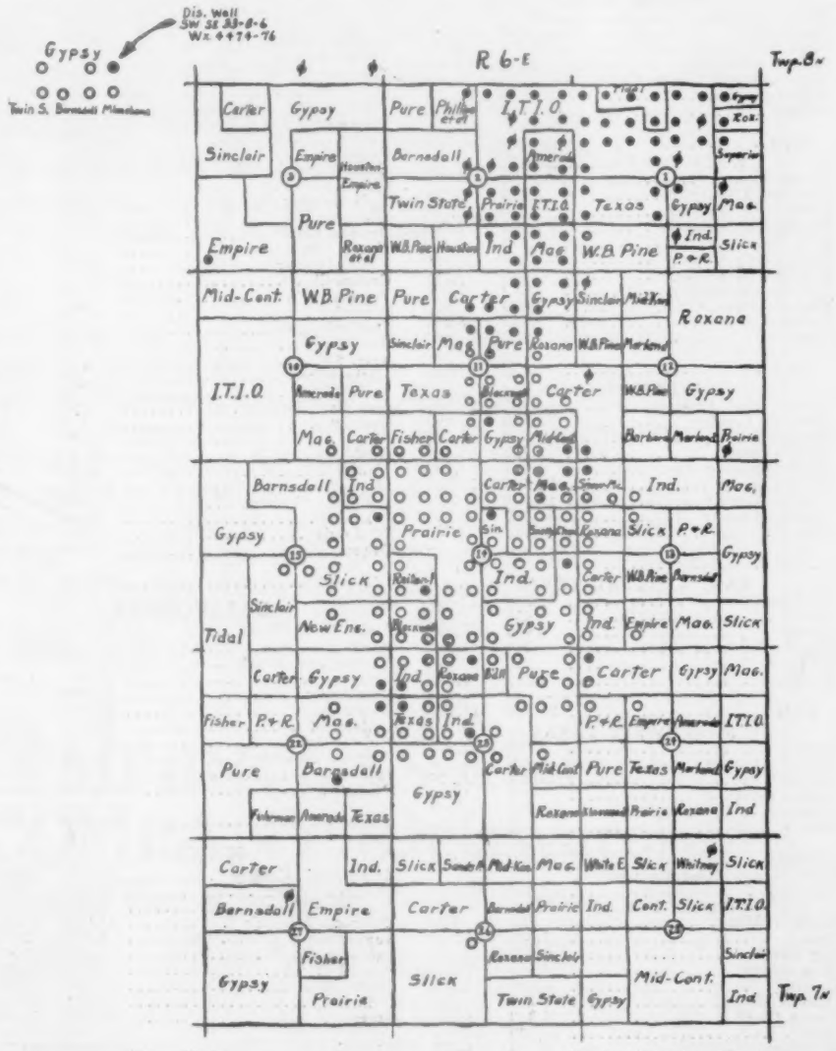
### Companies Drilling

The active locations in South Little River are divided among acreage holders as follows: Prairie Oil & Gas Company, 18; Independent Oil & Gas Company, 18, Carter Oil Company, 17; Gypsy Oil Company, 13; T. B. Slick, 9; Magnolia Petroleum Company, 8; Blackwell Oil & Gas Company, 8; Pure Oil Company, 7; Barnsdall Oil Corporation, 6; Roxana Petroleum Corporation, 5; Mid-Continent Petroleum Corporation, 4; New England Oil Refining Company, 3; The Texas Corporation & Independent Oil & Gas Company (joint holdings) 3; Reiter-Foster Oil Corporation, 2; Skelly Oil Company, 2; Champlin Refining Company, 2; Sinclair Oil & Gas Company, 2; Fisher Oil Company, 2; The Texas Corporation, 2; Empire Oil & Refining Company, 2; and Producers & Refiners (Prairie), 1.

It is highly probable that South Little River will continue to upset the dope as did the north pool and other forerunners to the north in Greater Seminole, going to either extreme. Figuring on the basis that four good producers have been obtained around a dry hole in the center of one of these Wilcox fields, none of the south territory has actually been condemned. If previous failures are to be taken as markers, then there are several limits defined. In the northeast of the southeast of the northwest of Section 27 Barnsdall got salt water in Wilcox sand. Three-quarters of a mile northeast another Barnsdall well is small, apparently an edge location. In the northeast of the northwest of the northeast of Section 25, E. W. Whitney found a failure. In the southwest of the southeast of the southeast of Section 12 the Prairie test well apparently marked the edge, while Carter and Sinclair found salt water along the west line of Section 12. The latter two locations would have the producing structure between the north and south ends of the field very narrow, yet the west side of this connecting strip has not been condemned, although a mile north the west side is definitely marked as no good. Along the west side of the south field there have been no failures to condemn acreage for a distance of two miles. While on the south salt water has marked production limits to the east and west, the direct south acreage has not been defined.

### Potential Acreage

Except the usual run of bad locations inside the producing area, as have been proved in each of the Greater Seminole pools, there is estimated to be approximately 220 good locations in the south pool, covering 3 7/16 sections. The concensus of opinion outlines this potentially productive acreage as follows: All of Section 14, the north three-quarters of Section 23, the northeast quarter of Section 22, the center half (running north and south) of Section 11, the southeast eighth of Section 10, the west three-eighths of Section 13, the northwest quarter of Section 24, the southwest sixteenth of Section 12, and the east three-eighths of Section 15.



# United States Daily Average Production

*Figures below are taken from the complete revised estimates of the AMERICAN PETROLEUM INSTITUTE except for the current week, which are advance estimates issued by the A. P. I. and are subject to revision:*

| 1927 | Oklahoma | Kansas | Texas (Outside Gulf Coast) | Gulf Coast | North Louisiana | Arkansas | Eastern States | Rocky Mountain | California | United States Daily Ave. | United States Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| January | 598,500 | 117,200 | 466,400 | 173,900 | 52,900 | 131,550 | 107,850 | 84,450 | 653,450 | 2,386,200 | 73,972,150 |
| February | 693,350 | 116,250 | 479,800 | 154,600 | 52,800 | 128,200 | 107,150 | 85,300 | 642,700 | 2,460,150 | 68,884,300 |
| March | 710,350 | 116,100 | 475,000 | 154,750 | 51,450 | 124,500 | 104,400 | 87,600 | 640,850 | 2,465,000 | 76,414,900 |
| April | 723,700 | 115,400 | 477,300 | 155,100 | 50,500 | 113,350 | 108,000 | 89,350 | 644,550 | 2,477,250 | 74,317,750 |
| May | 742,200 | 114,600 | 488,700 | 151,300 | 47,450 | 112,700 | 114,000 | 89,300 | 633,550 | 2,493,800 | 77,307,700 |
| June | 768,600 | 112,200 | 480,800 | 151,650 | 49,150 | 112,450 | 111,850 | 86,050 | 638,550 | 2,511,300 | 75,338,900 |
| July | 846,750 | 107,750 | 475,800 | 142,950 | 56,200 | 109,900 | 111,800 | 86,950 | 620,700 | 2,558,800 | 79,322,300 |
| August | 832,900 | 105,100 | 483,450 | 139,350 | 56,950 | 104,750 | 114,600 | 80,750 | 621,450 | 2,539,300 | 78,717,850 |
| September | 797,450 | 105,200 | 493,750 | 142,900 | 53,450 | 101,350 | 110,800 | 74,500 | 637,250 | 2,516,650 | 75,498,900 |
| October | 782,300 | 105,100 | 497,900 | 138,400 | 51,300 | 100,450 | 113,600 | 73,250 | 629,000 | 2,491,300 | 77,230,000 |
| November | 766,900 | 106,650 | 501,750 | 138,100 | 49,400 | 97,850 | 114,900 | 75,050 | 623,850 | 2,474,450 | 74,233,500 |
| December | 720,700 | 106,150 | 531,650 | 138,500 | 47,200 | 94,950 | 111,250 | 77,150 | 624,600 | 2,452,150 | 76,017,050 |
| 1928 | | | | | | | | | | | |
| January | 675,450 | 108,300 | 523,300 | 125,450 | 45,250 | 90,050 | 109,600 | 77,000 | 617,100 | 2,371,500 | 73,516,500 |
| February | 664,450 | 110,550 | 538,750 | 115,800 | 45,300 | 88,250 | 104,850 | 75,550 | 614,750 | 2,358,250 | 68,388,850 |
| March | 646,850 | 112,250 | 575,850 | 119,900 | 44,400 | 85,600 | 102,150 | 78,700 | 617,450 | 2,383,150 | 73,877,650 |
| April | 620,450 | 112,150 | 617,850 | 118,850 | 46,900 | 83,450 | 107,000 | 78,500 | 613,550 | 2,398,700 | 71,961,100 |
| May | 610,100 | 108,750 | 561,450 | 129,850 | 43,600 | 91,250 | 112,100 | 82,200 | 630,900 | 2,370,200 | 73,476,300 |
| June 2 | 599,700 | 107,950 | 533,450 | 131,850 | 42,700 | 107,050 | 112,000 | 89,900 | 640,800 | 2,365,400 | 16,557,800 |
| June 9 | 596,650 | 106,550 | 533,650 | 139,050 | 43,250 | 106,600 | 110,500 | 82,750 | 644,800 | 2,363,800 | 16,546,600 |
| June 16 | 598,950 | 105,450 | 536,750 | 135,650 | 42,500 | 106,150 | 109,000 | 82,000 | 642,000 | 2,358,450 | 16,509,150 |
| June 23 | 592,200 | 104,200 | 565,350 | 135,600 | 41,950 | 101,800 | 107,500 | 81,450 | 645,500 | 2,375,550 | 16,348,850 |
| June 30 | 590,250 | 103,850 | 587,900 | 132,200 | 41,600 | 95,550 | 109,500 | 81,300 | 642,000 | 2,384,150 | 16,689,050 |
| July 7 | 584,000 | 103,600 | 589,500 | 134,900 | 42,650 | 91,950 | 111,500 | 76,750 | 649,000 | 2,383,850 | 16,686,950 |
| July 14 | 584,050 | 102,350 | 595,550 | 135,300 | 42,750 | 92,150 | 113,000 | 81,750 | 644,500 | 2,391,500 | 16,740,500 |
| July 21 | 588,700 | 102,300 | 603,200 | 133,100 | 41,500 | 91,350 | 115,000 | 82,700 | 644,000 | 2,401,850 | 16,812,950 |
| Increase | 4,650 | ..... | 7,650 | ..... | ..... | ..... | 2,000 | 950 | ..... | 10,350 | 72,450 |
| Decrease | ..... | 50 | ..... | 2,200 | 1,250 | 800 | ..... | ..... | 500 | ..... | ..... |

## TEXAS

### (Outside Gulf Coast)

### PANHANDLE DISTRICT

| | July 21 | July 14 |
|---|---|---|
| Carson County | 6,300 | 6,000 |
| Gray County | 20,350 | 20,250 |
| Hutchinson County | 35,300 | 35,900 |
| Wheeler County | 900 | 900 |
| Others | 200 | 200 |
| Total | 63,050 | 63,250 |

### NORTH TEXAS

| | | |
|---|---|---|
| Archer County | 20,850 | 21,000 |
| Burkburnett | 10,300 | 10,500 |
| Electra | 13,300 | 13,400 |
| Iowa Park-KMA | 3,900 | 4,100 |
| Montague and Cooke Cos. | 11,200 | 11,250 |
| Wilbarger | 24,850 | 22,100 |
| Others | 600 | 650 |
| Total | 85,000 | 83,000 |

### WEST CENTRAL TEXAS

| | | |
|---|---|---|
| Brown County | 12,750 | 13,000 |
| Callahan County | 3,450 | 3,550 |
| Coleman County | 3,350 | 3,000 |
| Eastland-Desdemona | 7,800 | 8,000 |
| Jack County | 1,350 | 1,350 |
| Palo Pinto County | 450 | 450 |
| Shackelford County | 10,300 | 10,500 |
| Stephens County | 7,250 | 7,500 |
| Throckmorton County | 1,000 | 900 |
| Young County | 8,450 | 8,250 |
| Others | 600 | 600 |
| Total | 56,750 | 57,100 |

### WEST TEXAS

| | | |
|---|---|---|
| Crane-Upton Counties | 64,900 | 64,500 |
| Crockett County | 2,750 | 2,400 |
| Howard County | 5,650 | 5,700 |
| Jones County | 1,550 | 1,600 |
| Mitchell-Scurry Cos. | 3,000 | 3,100 |
| Pecos County | 70,400 | 72,000 |
| Reagan County | 20,400 | 18,400 |
| Winkler County | 181,450 | 176,000 |
| Others | 1,650 | 1,700 |
| Total | 351,750 | 345,450 |

### EAST CENTRAL TEXAS

| | | |
|---|---|---|
| Corsicana-Powell | 10,850 | 11,000 |
| Currie | 450 | 450 |
| Mexia | 6,950 | 7,000 |
| Nigger Creek | 1,050 | 1,050 |
| Richland | 550 | 550 |
| Wortham | 1,750 | 1,800 |
| Total | 21,600 | 21,850 |

### SOUTHWEST TEXAS

| | | |
|---|---|---|
| Dale | 1,250 | 1,200 |
| Laredo District | 8,550 | 8,200 |
| Luling | 13,250 | 13,500 |
| Lytton Springs | 900 | 1,000 |
| Somerset | 700 | 700 |
| Others | 400 | 400 |
| Totals | 25,050 | 25,000 |
| Total Texas (Outside Gulf Coast) | 603,200 | 595,550 |

### TEXAS GULF COAST

| | | |
|---|---|---|
| Barbers Hill | 700 | 800 |
| Batson | 1,400 | 1,450 |
| Big Creek | 3,200 | 3,200 |
| Blue Ridge | 6,900 | 7,500 |
| Boling | 1,900 | 1,900 |
| Damon Mound | 750 | 900 |
| Goose Creek | 6,850 | 6,900 |
| Hull | 10,600 | 10,400 |
| Humble | 1,300 | 1,250 |
| Orange County | 4,000 | 4,100 |
| Pierce Junction | 11,200 | 10,500 |
| Saratoga | 1,050 | 1,100 |
| Sour Lake | 3,400 | 3,350 |
| South Liberty | 4,100 | 4,400 |
| Spindle Top | 38,000 | 38,400 |
| West Columbia | 8,300 | 8,400 |
| Others | 2,600 | 2,000 |
| Totals | 106,250 | 106,550 |
| Texas Total | 709,450 | 702,200 |

## OKLAHOMA

| | | |
|---|---|---|
| North Braman | 3,000 | 3,050 |
| South Braman | 1,500 | 1,500 |
| Blackwell | 3,500 | 3,500 |
| Hubbard | 2,600 | 2,650 |
| Thomas | 1,250 | 1,300 |
| Tonkawa | 13,750 | 13,750 |
| Garber | 8,350 | 8,500 |
| Burbank | 29,800 | 30,800 |
| Osage (outside Burbank) | 26,900 | 26,450 |
| Cushing | 19,850 | 19,700 |
| Yale-Jennings | 7,700 | 8,000 |
| Davenport | 1,900 | 1,900 |
| Bristow-Slick | 21,600 | 21,650 |
| North Okmulgee | 14,900 | 15,000 |
| Lyons-Deaner | 6,050 | 6,200 |
| Cromwell | 9,300 | 9,400 |
| Papoose | 4,250 | 4,250 |
| Wewoka | 6,150 | 6,300 |
| Seminole | 51,250 | 51,500 |
| Bowlegs | 57,150 | 57,500 |
| Searight | 13,000 | 11,950 |
| Little River | 41,700 | 41,200 |
| Earlsboro | 78,150 | 79,750 |
| Duncan District | 8,100 | 8,200 |
| Graham | 5,400 | 5,450 |
| Fox | 1,600 | 1,650 |
| Healdton | 14,150 | 14,100 |
| Hewitt | 9,550 | 9,400 |
| Allen Dome | 20,550 | 19,650 |
| Scholem Alechem | 15,350 | 15,150 |
| Pearson | 4,400 | 4,600 |
| St. Louis | 35,500 | 30,150 |
| Others | 50,500 | 49,900 |
| Total | 588,700 | 584,050 |

## CALIFORNIA

| | | |
|---|---|---|
| Santa Fe Springs | 36,000 | 36,000 |
| Long Beach | 202,000 | 202,000 |
| Huntington Beach | 53,500 | 53,500 |
| Torrance | 17,000 | 17,000 |
| Dominguez | 11,000 | 11,500 |
| Rosecrans | 60,000 | 6,000 |
| Inglewood | 29,000 | 29,000 |
| Midway-Sunset | 71,000 | 71,000 |
| Ventura Avenue | 53,500 | 52,000 |
| Seal Beach | 34,500 | 35,000 |
| Others | 130,500 | 131,500 |
| Totals | 644,000 | 644,500 |

## KANSAS

| | | |
|---|---|---|
| Greenwood County | 28,450 | 28,400 |
| Florence-Covert | 1,050 | 1,050 |
| Peabody-Ebling | 3,250 | 3,250 |
| Eldorado-Towanda | 13,050 | 13,250 |
| Augusta-Fox Bush | 3,450 | 3,700 |
| Rainbow Bend | 1,600 | 1,600 |
| Russell | 3,800 | 3,900 |
| Churchill | 10,350 | 10,400 |
| Oxford | 10,650 | 10,800 |
| Others | 26,650 | 26,000 |
| Total | 102,300 | 102,350 |

## NORTH LOUISIANA

| | July 21 | July 14 |
|---|---|---|
| Homer | 4,400 | 4,400 |
| Haynesville | 6,150 | 6,150 |
| Caddo Light | 9,400 | 9,600 |
| Caddo Heavy | 3,150 | 3,200 |
| DeSoto-Red River | 3,900 | 4,050 |
| Elm Grove | 600 | 600 |
| Bellevue | 850 | 850 |
| Cotton Valley | 5,050 | 5,600 |
| Urania | 7,350 | 7,800 |
| Pleasant Hill | 650 | 500 |
| Total North Louisiana | 41,500 | 42,750 |

### LOUISIANA GULF COAST

| | | |
|---|---|---|
| Bayou Boullion | 700 | 800 |
| East Hackberry | 5,400 | 6,950 |
| Edgerly | 1,100 | 1,100 |
| Evangeline | 1,000 | 1,000 |
| Lockport | 3,600 | 3,650 |
| Sorrento | 1,700 | 1,700 |
| Sulphur Dome | 4,400 | 4,700 |
| Sweet Lake | 4,050 | 4,100 |
| Vinton | 4,700 | 4,550 |
| Others | 200 | 200 |
| Total Louisiana Gulf Coast | 26,850 | 28,750 |
| Louisiana Total | 68,350 | 71,500 |

## ARKANSAS

| | | |
|---|---|---|
| El Dorado | 5,400 | 5,400 |
| Champagnolle | 15,700 | 16,300 |
| Smackover Light | 7,600 | 7,600 |
| Smackover Heavy | 58,100 | 58,250 |
| Stephens | 1,050 | 1,000 |
| Nevada | 1,400 | 1,450 |
| Lisbon | 2,000 | 2,050 |
| Others | 100 | 100 |
| Total | 91,350 | 92,150 |

## MOUNTAIN STATES

### WYOMING

| | | |
|---|---|---|
| Salt Creek | 41,500 | 39,800 |
| Grass Creek | 2,600 | 2,300 |
| Elk Basin | 1,050 | 1,000 |
| Big Muddy | 2,750 | 2,800 |
| Lost Soldier | 4,000 | 4,100 |
| Rock River | 2,800 | 2,700 |
| Lance Creek | 550 | 550 |
| Others | 7,300 | 7,050 |
| Total | 62,550 | 60,300 |

### MONTANA

| | | |
|---|---|---|
| Cat Creek | 1,700 | 1,700 |
| Sunburst | 8,300 | 8,600 |
| Other | 150 | 150 |
| Total | 10,150 | 10,450 |

### COLORADO

| | | |
|---|---|---|
| Moffats (Craig) | 1,100 | 1,050 |
| Fort Collins | 2,500 | 2,500 |
| Florence | 1,100 | 1,300 |
| Others | 3,400 | 3,450 |
| Total | 8,100 | |

### NEW MEXICO

| | | |
|---|---|---|
| Table Mesa | ... | 450 |
| Artesia | 1,150 | 1,150 |
| Hogback | 200 | 200 |
| Rattlesnake | 350 | 700 |
| Others | 200 | 200 |
| Total | 1,900 | 2,700 |
| Total Mountain States | 82,700 | 81,750 |

### EASTERN STATES

| | | |
|---|---|---|
| (Including Ill., Ind., Ohio, W. Va., Pa., Ky., and N. Y.) | 115,000 | 113,000 |

### PRODUCTION SUMMARY

| | | |
|---|---|---|
| East of Rockies | 1,757,850 | 1,657,600 |
| U. S. Total | 2,401,850 | 2,391,500 |

# Fifteen Years of Growth

*Headquarters of The Empire Gas and Fuel Company, Bartlesville, Oklahoma*

In less than fifteen years the Empire Gas and Fuel Company and subsidiaries have become a big factor in the petroleum industry. Growing from a modest start, these organizations now have an average daily production of crude oil of 50,000 barrels from every important field in the Southwest; operate 751 miles of oil pipe line from the Mid-Continent fields to four refineries; produce nearly 200,000 gallons of natural gasolene daily; treat 20,000 barrels of crude oil every day at their refineries; transport and sell 150,000,000 cubic feet of natural gas daily in 125 cities in Oklahoma, Kansas and Missouri and market thousands of gallons of gasolene and refined oils daily in a territory that extends from Toronto, Canada, on the North to the Gulf of Mexico on the South.

## THE EMPIRE GAS AND FUEL COMPANY, (Delaware)

Central Offices at Bartlesville, Okla.

*"A Complete Cycle in the Petroleum Industry"*

# COMPLETIONS FOR PAST WEEK IN U.S. FIELDS

## TEXAS

### NORTH TEXAS

ARCHER COUNTY—
Arco Oil Co., Perkins 4 ..... 25 1017
Roy I. Carter et al, Parkey 1-C .. 30 1716
Humble O. & R. Co., Logan 1-C .. * 1775
Stump & Hines, Perkins 4 ..... 30 628
Sun Oil Co., Ford 2 ..... * 1816
The Texas Co., Wilson 1-F ..... * 1604
Griffith 3 ..... 25 1005
BURKBURNETT—
M. Blair et al, Honaker 1 ..... 3 395
Schlaffke et al, Honaker 1 ..... 5 1070
COOKE COUNTY—
Kewanee O. & G. Co., Hyman 7-A 50 1278
ELECTRA—
Culbertson Bros. Co., Waggoner 53 25 1448
Eastern Pet. Co., Burnett 7-A .... * 1700
Burnett 5-B ..... * 1459
Mrs. R. A. Lanning et al, McCarty 3 25 1353
Ryan Cons. Pet. Corp., Nance 96.. * 1804
Nance 97 ..... 120 1357
K-M-A & IOWA PARK—
Coleman & Coppock, K. & K. 13.. 45 859
K. & K. 14 ..... 30 855
Hamon-Garrett et al, Mitchell 1.. * 424
Mitchell 2 ..... 75 1635
Holbrook & Wood, K. & K. 4 .... 20 865
W. B. Omohundro et al, Pace 13.. 250 1230
MONTAGUE COUNTY—
Arco Oil Co., Loy 7 ..... 25 803
Lesh-McCall et al, Rolls 15..... 15 820
Pure Oil Co., Loy 7 ..... 25 812
The Texas Co., Maddox 14-D ..... 35 964
WILBARGER COUNTY—
Barkley & Meadows, Waggoner 4-D 75 1885
Consolidated Oil Co., Waggoner 5-A 220 1860
Waggoner 7-A ..... 400 1859
Fain-McGaha Oil Corp., Waggoner 5-L ..... 125 2310
W. B. Hamilton & H. N. Martin, Waggoner 3-B ..... 280 1885
E. B. Lawson et al, Waggoner 5-B 180 2334
Murchison Oil Co., Waggoner 2-F * 2573
John O'Neil, Waggoner 1 ..... * 2504
The Texas Co., Waggoner 6-E.....1420 2387
YOUNG COUNTY—
Elliott et al, Stewart 1 ..... * 1050
Hall et al, Davis 1 ..... 350 567
Hill et al, Routen 1 ..... * 901
Kleiner et al, Hawkins 4 ..... * 525
Nash & Windfohr et al, Hinson 5.. 35 2184
Lisle 1 ..... † 2580
Nixon & York State Oil Co., Baker 1 * 655
Parker et al, McCory 1 ..... * 700
Petroleum Prod. Co., Henning 3 .. 40 1097

### CENTRAL WEST TEXAS

BROWN COUNTY—
Anderson et al, Williams 1 ..... ¶¼ 1333
Baker-Hodge & Usonia Oil Co., Miers 1 ..... 8 1204
Bradstreet & Stout, Stout 13 ..... 25 1181
Burris et al, Newton 5 ..... 40 1227
Chanter Oil Co., Byler 2-B ..... 25 1338
Clark-Buffalo Oil Co., Perry 6 ... 150 1098
Cranfill-Reynolds, DeBusk 1-C..... * 2083
Eubanks 10 ..... 60 1252
Daniels et al, Miers 1 ..... * 1277
Hammon & Garrett, Curry 3 ..... 40 1090
Humble O. & R. Co., Kilgore 14-B 20 1190
Kone Prod. Co., Hickman 12..... 55 1272
Hickman 6-C ..... 30 1286
Milham Corp., Rosser 2 ..... * 1343
Moore Oil Corp., Munselle 2 ..... * 1214
L. C. Riordan et al, Riordan 1.... 25 1197
Sinclair O. & G. Co., Eubanks 4 .. 30 1221
Stewart et al, Perry 1 ..... * 1744
S. W. S. O. & G. Co., Baugh 3.... * 2230
Young Bros. & Alexander, Hickman 1 ..... * 1315
CALLAHAN COUNTY—
Dickey Oil Co., Williams 1 ..... * 700
Swoveland & Maule, Hall 2 ..... * 1005
COLEMAN COUNTY—
Derby Oil Co., Jennings 2 ..... 75 1192
Prairie O. & G. Co., Morris 1 .... ¶3 2234
EASTLAND COUNTY—
Goodwin et al, Parker 1 ..... 25 1503
Harbin et al, Turner 1 ..... * 1355
Hickok Prod. & Dev. Co., Ricks 1 * 3783
Mook-Texas Oil Co., Williamson 2 40 3205
Root et al, Ray 4 ..... * 4230
SHACKELFORD COUNTY—
Collett et al, Bradford 1 ..... * 955

## SUMMARIZED REVIEW OF FIELD RESULTS

| State— | Completions This Week | Completions Last Week | Producers This Week | Producers Last Week | Gas Wells This Week | Gas Wells Last Week | Failures This Week | Failures Last Week | Initial Production This Week | Initial Production Last Week |
|---|---|---|---|---|---|---|---|---|---|---|
| Arkansas | 5 | 12 | 4 | 5 | 1 | .. | .. | 7 | 1,935 | 4,416 |
| California | 12 | 14 | 11 | 13 | .. | .. | 1 | 1 | 15,015 | 25,290 |
| Colorado | .. | .. | .. | .. | .. | .. | .. | .. | .... | .... |
| Florida | .. | .. | .. | .. | .. | .. | .. | .. | .... | .... |
| Illinois | 4 | 1 | 4 | 1 | .. | .. | .. | .. | 9 | 25 |
| Indiana | 5 | .. | 1 | .. | 2 | .. | 2 | .. | 60 | .... |
| Kansas | 32 | 17 | 14 | 7 | 6 | .. | 12 | 10 | 4,010 | 495 |
| Kentucky | 13 | 29 | 11 | 11 | .. | 1 | 2 | 17 | 715 | 99 |
| Louisiana | 10 | 23 | 6 | 7 | 2 | 9 | 2 | 7 | 4,355 | 1,392 |
| Michigan | 2 | 5 | 2 | 5 | .. | .. | .. | .. | 75 | 834 |
| Mississippi | .. | .. | .. | .. | .. | .. | .. | .. | .... | .... |
| Montana | .. | .. | .. | .. | .. | .. | .. | .. | .... | .... |
| New Mexico | .. | .. | .. | .. | .. | .. | .. | .. | .... | .... |
| New York | 22 | 19 | 21 | 19 | .. | .. | 1 | .. | 54 | 61 |
| Ohio | 15 | 10 | 8 | 8 | 3 | .. | 4 | 2 | 466 | 248 |
| Oklahoma | 72 | 74 | 27 | 38 | 13 | 8 | 32 | 28 | 10,063 | 12,723 |
| Pennsylvania | 63 | 71 | 57 | 64 | 5 | 4 | 1 | 3 | 189 | 273 |
| Tennessee | .. | .. | .. | .. | .. | .. | .. | .. | .... | .... |
| Texas | 145 | 137 | 91 | 79 | 5 | 7 | 49 | 51 | 87,018 | 117,045 |
| West Virginia | 23 | 18 | 2 | 3 | 15 | 11 | 6 | 4 | 9 | 32 |
| Wyoming | .. | .. | .. | .. | .. | .. | .. | .. | .... | .... |
| Totals | 423 | 430 | 259 | 260 | 52 | 40 | 112 | 130 | 123,973 | 162,933 |
| Increase this week | .. | .. | .. | .. | 12 | .. | .. | .. | .... | .... |
| Decrease this week | 7 | .. | 1 | .. | .. | .. | 18 | .. | 38,960 | .... |

Hope Pet. Co., Powers 1 ..... * 1503
James et al, Moberley 9 ..... 15 1185
Roeser-Pendleton, Inc. et al, Cook 72-A (Sec. 60) ..... 75 1210
Cook 73-A (Sec. 60) ..... 45 1197
Cook 7-B (Sec. 61) ..... 50 1359
Tannehill Oil Co. et al, Moberley 10 15 1010
STEPHENS COUNTY—
A. J. Brown Prod. Co., Riddle 4 .. 50 1905
Dubose & Snebold, Winston 1 ..... ¶1 2340
The Texas Co., Stoker 1 ..... * 3730
Texas-Louisiana Power Co., Bank Fee 1 ..... ¶6 1704

### TEXAS PANHANDLE

CARSON COUNTY—
Empire Gas & Fuel Co., A. J. Dauer 1-B ..... ¶32 2441
GRAY COUNTY—
Baldridge-Sherrin et al, Chapman 1-A * 2889
Danciger O. & R. Co. et al, Jackson 9-A ..... 300 3087
Magnolia Pet. Co., J. B. Bowers 2 65 3050
The Texas Co., R. C. Mayberry 1.. 190 2770
HUTCHINSON COUNTY—
Alamosa Oil Co., Sanford 2..... 200 2991
Friedman et al, J. Q. Bost 1 ..... ¶45 2765
Harris et al, Lee Bivins ..... ¶45 2715
Phillips Pet. Co., Sanford-Land 2 .. 55 2986
Phillips & Marland, Sanford-Chap 2 150 2969
MOTLEY COUNTY—
Matador Oil Co., C. D. Bird 1 .... † 725

### WEST TEXAS

CROCKETT COUNTY—
Gulf Prod. Co., Powell 3-D ..... 150 2628
Humble & Marland Prod. Co., Powell 4-B ..... 550 2559
HOWARD COUNTY—
Godley O. & G. Co., Hooks 5 ..... 150 1861
Pure Oil Co., Chalk 5 ..... 125 1703
JONES COUNTY—
Phillips Pet. Co., Mason 3 ..... 300 2530
Joe Winters 5 ..... * 4580
Robert Oil Corp. & Cosden & Co., Grayson 1 ..... 225 2540
PECOS COUNTY—
Gulf Prod. Co., I. G. Yates 11....4800 1328
I. G. Yates 14 .....8280 1265
Humble O. & R. Co., Smith 5-B ... 500 1458
McMan O. & G. Co. & Marland Prod. Co., Yates 17 ..... 480 1421
Mid-Kansas-Transcontinental, Yates 22-A .....15,000 1402
Yates 26-B .....15,000 1390
Yates 2-G .....1440 1285
Yates 1-I ..... * 1325
Roxana Pet. Corp., Smith 6 ..... 500 1602
Smith 9 ..... 90 1559
WINKLER COUNTY—
Gulf Prod. Co., Hendrick 18.....15,000 2802
Humble O. & R. Co., Grisham-Hunter 9 .....2500 2678
Marland Prod. Co., Hendrick 1-A ... 500 2950
Pure Oil Co., Grisham-Hunter 7 ...1000 2805
Roxana Pet. Corp., Grisham-Hunter 2-E .....1400 2714
Roxana & The Texas Co., Ida Hendrick 9-A ..... † 2440
Southern Crude & R. A. Westbrook, Hendrick 2-A-T-89 ..... 200 3055
Hendrick 3-H-T-88 ..... 280 3159
Texon Oil & Land Co., Hendrick 4-B .....4800 2967
Winkler Oil Prod. Corp., Hendrick 1 500 3115

## GULF COAST

BLUE RIDGE—
Gulf, L. W. Lutcher 13 ..... * 5100
Watts Brothers, Blakely 6 ..... 300 3775
Navarro Oil Co., Robinson 5 ..... * 3110
Community 1 ..... * 3860
Cunningham Production Co., Blakely 5 ..... 300 2500
W. G. Nelms, Blakely 2 ..... 450 2320
BOLING—
Gulf, McCarson 5 ..... 7 455
BATSON—
Capitol Oil Co., Hodges 10 ..... * 4690
WEST COLUMBIA—
Gulf, Hogg et al 2 ..... 700 3020
PIERCE JUNCTION—
A. & P. Production Co., Whitehead 3 300 5470
Shaw et al, Fitzsimmons 2..... 600 4820
SPINDLE TOP—
Sun, Price 2 wo ..... * 6080
HULL—
Republic, Dolbear 79 ..... 150 2506

## SOUTH LOUISIANA

EVANGELINE—
Ratcliff Oil Co., Martin 10 ..... 50 1825
VINTON—
Vinton Petroleum Co., Vincent 16 wo 185 2150
The Texas Company, Gray 23 wo... 20 2230
STARKS DOME—
Gulf, Industrial Lbr Co. 11, .....2500 4300

## LOUISIANA

OUACHITA PARISH—
Montgomery Tr.'s Johnson 2, 31-19-4e ..... ¶3 2209
SABINE PARISH—
Arkansas Fuel Oil Co.'s Logan 12, 23-10-12 ..... 150 3210
UNION PARISH—
Ruston Drlg. Co.'s Betty Neal 1, 24-20-3e ..... ¶5 2183

Total, 3 wells .....¶8-150

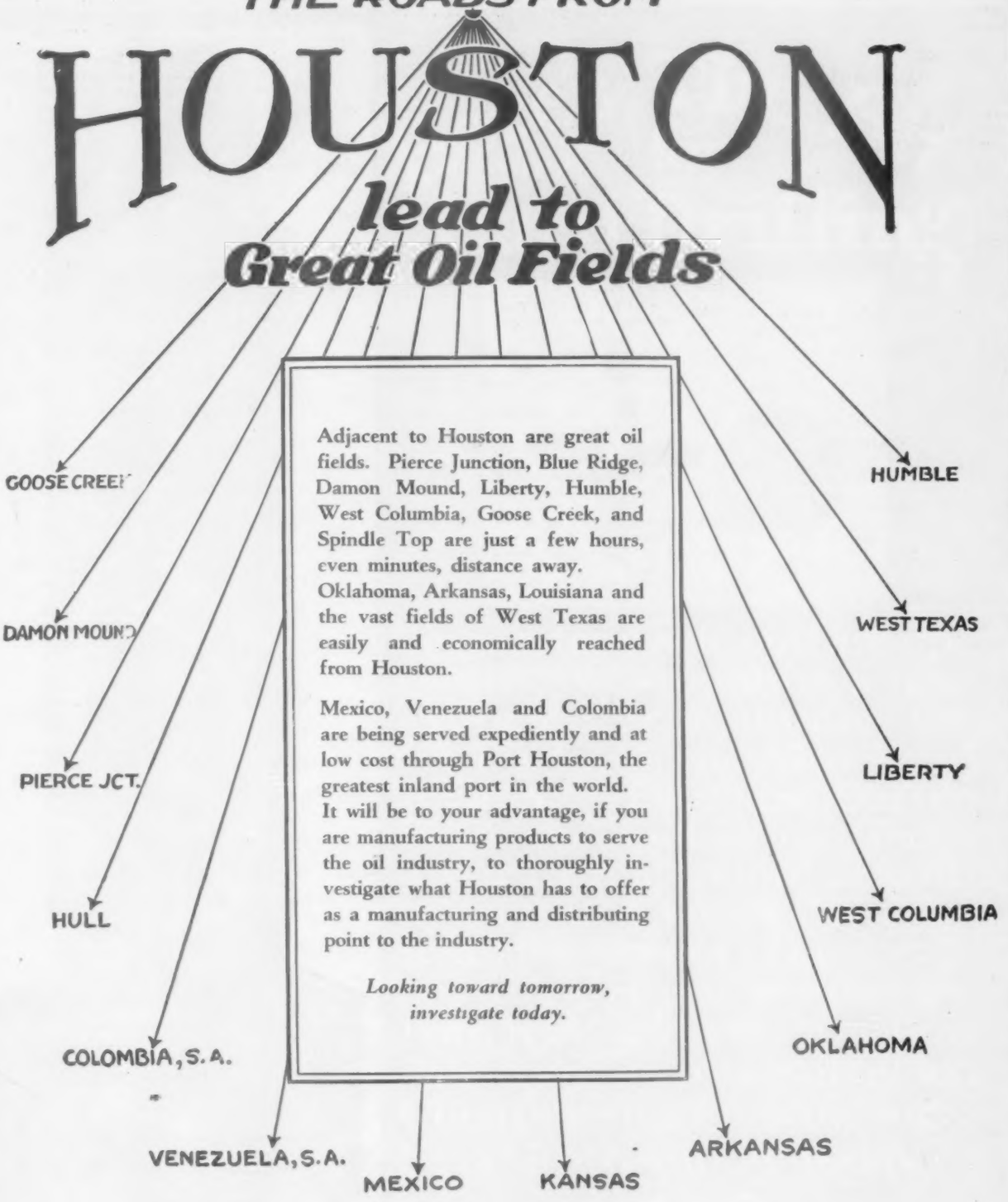
## ARKANSAS

OUACHITA COUNTY—
Wesson & Bonner's Hall & Wilson 2, 22-15-19 ..... 35 2164
UNION COUNTY—
Lion O. & R. Co.'s Murphy H-3, 9-16-15 ..... 50 2345

THE ROADS FROM

# HOUSTON

## lead to Great Oil Fields




Adjacent to Houston are great oil fields. Pierce Junction, Blue Ridge, Damon Mound, Liberty, Humble, West Columbia, Goose Creek, and Spindle Top are just a few hours, even minutes, distance away.
Oklahoma, Arkansas, Louisiana and the vast fields of West Texas are easily and economically reached from Houston.

Mexico, Venezuela and Colombia are being served expediently and at low cost through Port Houston, the greatest inland port in the world.
It will be to your advantage, if you are manufacturing products to serve the oil industry, to thoroughly investigate what Houston has to offer as a manufacturing and distributing point to the industry.

*Looking toward tomorrow, investigate today.*

*Industrial Department*

## CHAMBER OF COMMERCE

HOUSTON, TEXAS

*Say you saw it in The OIL WEEKLY*

| Company, well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| Magna Prod. Co.'s Townsend 4, 10-17-14 | 1300 | 3234 |
| Skelly Oil Co.'s J. M. Gregory 1, 15-17-14 | ¶50 | 3051 |
| Pardue 1, 10-17-14 | 550 | 3252 |
| Total, 5 wells | 1935-¶50 | |

## CALIFORNIA

| | | |
|---|---|---|
| KERN FRONT— | | |
| Standard Oil Co., No. K-1, 34-28-27 | * | 5302 |
| LONG BEACH— | | |
| Dabney-Johnston Oil Corp., Casenave 4 | 2200 | 6403 |
| George F. Getty, Inc., No. 24 | 200 | 6650 |
| Shell Co., Harsch 3 | 1000 | 7100 |
| Dabney-Johnston Oil Corp., No. 4 | 3500 | 6005 |
| MIDWAY— | | |
| Standard Oil Co., No. 84, 33-21-24 | 150 | 4435 |
| MT. POSO— | | |
| Pan American Pet. Co., Glide 1, 21-27-28 | 300 | 1725 |
| RINCON— | | |
| General Pet. Corp., Hobson A-2, wo | 90 | 3550 |
| Pan American Oil Co., State 1, wo | 250 | 3685 |
| SEAL BEACH— | | |
| Marland O'l Co., Bixby 21 | 1800 | 4765 |
| VENTURA— | | |
| Shell Co., Taylor 26 | 5500 | 6900 |
| WHEELER RIDGE— | | |
| Standard Oil Co., No. 34, 27-11-20 | 25 | 2303 |

## KANSAS

| | | |
|---|---|---|
| BUTLER COUNTY— | | |
| Blue Stem Oil Co., Doughty 2, nwc sw, 5-27-6e | 1800 | 2751 |
| Ramsey et al, Simpson 1, swc nw, 5-27-6e | 960 | 2754 |
| Mohawk Oil Co., Doughty 2, ne nw se, 6-27-6e | 25 | 3060 |
| Dixie Oil Co., Marshall 2, ne nw nw, 10-27-6e | 150 | 3150 |
| Shawver et al, Huntley 1, sec sw, 6-27-6e | * | 2308 |
| CHASE COUNTY— | | |
| Ed Wilson, Jenson 1, sec nw, 24-19-7e | ¶1 | 540 |
| CHATAUQUA COUNTY— | | |
| Elmwood O'l Co., Hilton 1, nec nw, 13-32-9e | ¶2 | 1276 |
| COFFEY COUNTY— | | |
| Harper Oil Co., Peek 3, cel sw sw, 16-23-14e | 25 | 1640 |
| COWLEY COUNTY— | | |
| Marland Oil Co., Graham 3, se sw ne, 15-32-4e | 40 | 3327 |
| Kentucky Nitrogen & Oxygen Co., Thompson 2, swc ne se, 13-33-6e | ¶1 | 985 |
| Vickers Pet. Co., Daniels 1, nwc ne, 3-30-6e | * | 3270 |
| White Eagle O. & R. Co., Asbury 1, sw nw sw, 10-33-4e | * | 3604 |
| GREENWOOD COUNTY— | | |
| Devine et al, Brown 1, c ne sw, 22-26-11e | ¶1 | 610 |
| Ritchey & Moore, Pickley 1, se sw nw, 3-22-10e | * | 2310 |
| McPHERSON COUNTY— | | |
| Tudev & Lamar, Paulsen 1, sec nw, 6-19-2w | * | 3545 |
| Rosenthal et al, Johnson 1, c se se, 30-18-2w | ¶10 | 2932 |
| MARION COUNTY— | | |
| Phillips Pet. Co., McCoy 2, nec se, 14-17-4e | 250 | 2374 |
| Johnson et al, McNichols 2, nw sw ne, 15-17-4e | 50 | 2385 |
| MORRIS COUNTY— | | |
| A A Oil Co., Adams 1, nw ne se, 29-14-5e | * | 2515 |
| SUMNER COUNTY— | | |
| Roxana Pet. Corp., River Bed 8, sec nw se sw, 25-31-2e | 275 | 1879 |
| Emerich 1A, nec Tract 5, City of Oxford, 14-32-2e | 70 | 1263 |
| Emerich 13, nwc se, 14-32-2e | 75 | 2062 |
| Rothwell 5, sec ne ne sw, 14-32-2e | 50 | 2092 |
| Rothwell 4, csl n½ ne sw, 14-32-2e | 240 | 2077 |
| H. Boxer, Herrick 5, nwc se ne ne, 15-35-2e | ¶1 | 1534 |
| Roxana Pet. Corp., Shore 6B, cel nw sw, 25-31-2e | * | 1845 |
| Washoma Oil Co., Wenrich 1, sec sw nw ne, 35-21-2e | * | 1954 |
| Roxana Pet. Corp., Barnes 5, swc, 14-32-2e | * | 2170 |
| Helmerick & Payne, Broadhurst 1, se ne ne, 15-33-2e | * | 3627 |
| Helmerick, Payne et al, Melick 1, nec, 21-33-2e | * | 3687 |
| Hartman & Skaer, Graves 1, sec, 7-35-1e | * | 2656 |
| Washoma Oil Co., White 2, sw se sw, 16-35-2e | * | 2370 |

## OKLAHOMA

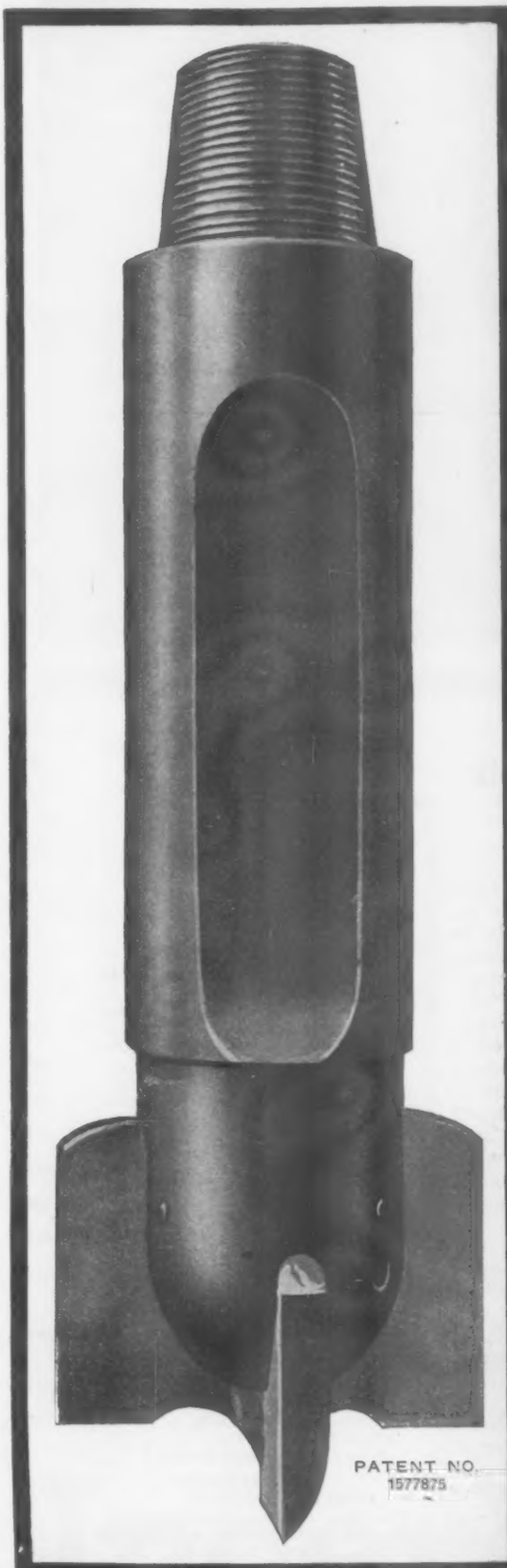
| | | |
|---|---|---|
| BECKHAM COUNTY— | | |
| Producers Synd., Thompson 1, se nw se, 21-9n-23w | ¶40 | 2667 |
| Magnolia Pet. Co., Davis 1, sw se se, 21-9n-23w | ¶40 | 2795 |
| O. & H. Pet. Co., Barnes 1, nwc ne, 32-9n-22w | * | 3170 |
| CARTER COUNTY— | | |
| Schermerhorn et al, Crockett 5, sw ne sw, 23-1s-3w | ¶12 | 2638 |
| Humble Oil & Ref. Co., Ratleff 4, nw ne sw, 20-1s-3w | 150 | 3117 |
| COTTON COUNTY— | | |
| Shasta Oil Co., Chalmers 1, nwc se, 2-2s-10w | 78 | 2153 |
| CREEK COUNTY— | | |
| Madden & Madden et al, Harry 1, sec ne sw, 13-15-9e | * | 3409 |
| Hiram O. & G. Co., Bucktrot 5, swc nw nw, 35-17-10e | * | |
| L. & D. Drlg. Co., Fulsom 3, cel ne ne, 23-17-10e | * | 2010 |
| Gypsy O'l Co., Aubrey 8, nec, 24-18-18-11e | * | 2415 |
| H. H. Taylor et al, Oglesby 1, nec nw sw, 9-18-9e | * | 3164 |
| D. W. Franschot and Mid-Continent Pet. Corp., Jones 2, nec se sw, 4-14-10e | 15 | 3175 |
| Mid-Kansas O. & G. Co., Butler 1, nwc se ne, 3-17-9e | 5 | 2007 |
| J. A. Hull Co., Walker 3, sec sw sw, 21-18-9e | 20 | 2631 |
| Shaffer O. & R. Co., Cain 4A, nec se, 18-17-7e | 865 | 2847 |
| GRADY COUNTY— | | |
| Wrightsman, Short 1, c se sw, 25-4n-8w | ¶15 | 2307 |
| Twin State Oil Co., Cox 2, ne se se, 14-4n-8w | ¶12 | 2472 |
| Okla. Gas Utilities Co., Farwell 11, se ne ne, 26-5n-8w | 35 | 2400 |
| Champlin Ref. Co., Kerns 1, nec sw, 13-4n-8w | * | 2403 |
| JEFFERSON COUNTY— | | |
| McGinley & Sigler, Clark 2, nec se sw se, 17-7s-5w | 30 | 792 |
| Clark 1, nwc se sw se, 17-7s-5w | 75 | 788 |
| KAY COUNTY— | | |
| Mummert Drlg Co. et al, Harris 1, swc se, 27-27-3e | ¶2 | 1860 |
| C. A. Leonard et al, Buessing 1, cwl e½ ne se, 20-27-1e | ¶1 | 747 |
| Nye & Farrell, Snyder 1, swc nw sw nw, 33-29-1e | * | |
| MARSHALL COUNTY— | | |
| Humble O. & R. Co., Sullivan 4, nec 25-5s-5e | 10 | 553 |
| MUSKOGEE COUNTY— | | |
| M. S. Mussellem, Townsite 1, lot 30, blk 18, swc se se se, 28-15-18e | 30 | 1092 |
| Mrs. J. E. Sweatt, Davidson 1A, cnl se sw, 24-15-17e | ¶2 | 1379 |
| N. F. Hancock et al, Grimmett 1, nec nw nw sw, 10-15-17e | ¶8 | 1306 |
| Bryan & Emery, Grayson 1, swc nw, 9-15-15e | 60 | 1672 |
| J. R. Parks, Benge 2, nec se ne nw, 13-15-19e | * | 1550 |
| Kimsey & Sanderson, Townlot 1, lt 18, blk 5, sw nw nw, 36-15-18e | * | 1090 |
| Hogan & Lammers, Townlot 2, blk 5, sw nw nw, 36-16-18e | * | 1255 |
| R. H. Kimsey, Townlot 1, blk 358, se ne ne, 35-15-18 | | 1190 |
| W. R. Sommerville, Coleman 1, sec nw sw, 18-15-15e | * | 1944 |
| OKFUSKEE COUNTY— | | |
| Henry & Avers, Buckley 4, cwl se sw, 12-12-11e | * | 2680 |
| OKMULGEE COUNTY— | | |
| J. R. Gardner, Simmer 1A, sec sw sw, 9-14-13e | 6 | 1224 |
| The Texas Company, Severs 9, nwc sw ne, 20-15-14e | 12 | 888 |
| B. Martin, Hawkins 1A, nes nw nw, nw nw, 9-11-12 | * | 1132 |
| OSAGE COUNTY— | | |
| Marland Gas Prod. Co. 3A, c ne sw, 22-24-7e | ¶15 | 1221 |
| Phillips Pet. Co. 2, se sw sw, 1-27-5e | 10 | 3010 |
| Peters Pet. Co. et al 2, nwc sw, 28-24-9e | * | |
| Peters Pet. Co. and Producers & Ref. Corp. 1, sec ne, 30-26-7e | * | 3067 |
| PAWNEE COUNTY— | | |
| Greives et al, Blackmer 1, nec se ne, 22-20-9e | ¶4 | 2137 |
| Tooten & Hayden, Ackley 3, swc nw se, 14-20-9e | * | 2162 |
| Twin State Oil Co., Hughes 2, nwc se, 12-20-7e | * | 2943 |
| PAYNE COUNTY— | | |
| Roxana Pet. Corp., Lorg 7, nec se nw, 18-19-7e | * | 3595 |
| PITTSBURG COUNTY— | | |
| San Bois Gas Co., McGaha 1, swc ne, 20-7-17e | ¶3 | 2630 |
| PONTOTOC COUNTY— | | |
| Mid-Continent Pet. Corp., Scroggins 1, swc ne, 27-5n-7e | * | 3061 |
| J. A. Hull, Erydia 1, nwc se, 33-5n-5e | * | 1903 |
| POTTAWATOMIE COUNTY— | | |
| Magnolia Pet. Co., Fyke 1, nw sw se, 20-7-5e | 4977 | 4270 |
| Gypsy Oil Co., LeClair 1, nw sw se, nw sw se, 23-7-4e | 1717 | 4178 |
| Twin State Oil Co., Brown 1, ne sw ne, 22-7-4e | * | |
| Carter Oil Co., Davis 2, nec se, 19-7-4e | * | |
| The Texas Co., Roger 3, ne se se, 5-9-5e | * | 4425 |
| SEMINOLE COUNTY— | | |
| Twin State Oil Co., Swartz 1, sec, 19-9-7e | 500 | 3539 |
| Sunray Oil Corp., Culley 5, nwc sw sw ne, 18-5-8e | 400 | 2604 |
| Magnolia Pet. Co., Hammond 7, ne nw ne, 10-8-6e | 380 | 4187 |
| Pure Oil Co., Strothers F6, sw ne nw, 10-8-6e | 420 | 4200 |
| Bunte et al, Turner 1, nwc se, 14-8-9e | * | |
| Continental Oil Co., Cosar 5, nw ne nw, 36-8-6e | * | 4490 |
| Blackwell O. & G. Co., Bean 1, se ne sw, 6-10-7e | * | 4857 |
| STEPHENS COUNTY— | | |
| Magnolia Pet. Co., Brown 2, sec, 2-2s-5w | 2 | 655 |
| Pace et al, Bristowe 2A, swc se ne nw, 18-2s-7w | 250 | 1496 |
| Magnolia Pet. Co., Thomas 1, nec se se, 25-1n-9w | ¶3 | 2400 |
| Pace et al, Bush 1, nw se se, 3-2s-8w | * | 1688 |
| Roy Carter, Burke 1, nw se se, 34-1s-8w | * | 1937 |
| Pearce & Brown, Cummings 1A, nw se nw, 27-1s-8w | * | 1734 |
| Morrison & Neal, Truitt 1, nec nw, 14-2n-5w | * | 2220 |
| TULSA COUNTY— | | |
| Sand Springs, Home Jones 2, sec sw nw ne, 15-19-11e | 10 | 1697 |
| Glidden Oil Corp., Jones 3, csl sw ne, 15-19-11e | ¶1 | 1687 |
| WAGGONER COUNTY— | | |
| W. R. Rowland, Haynie 1, sec sw ne, 13-17-15e | * | 972 |
| A. Chapman, Hosmer 2, ne se se, 21-18-17e | * | 1903 |

## MOUNTAIN STATES

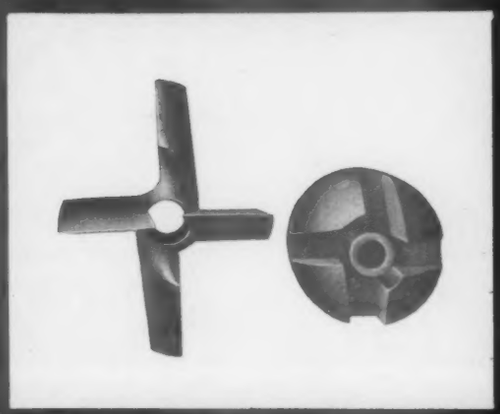
### PENNSYLVANIA

| | | |
|---|---|---|
| BRADFORD FIELD— | | |
| South Penn Oil Co., Bingham 190, tr 02 | 3 | |
| Bingham 405, tr 7 | 3 | |
| Bingham 501, tr 20 | 2 | |
| Hazlewood 22, tr 48 | 2 | |
| Hazlewood 26, tr 22 | 2 | |
| Hazlewood 27, tr 142 | 2 | |
| Hazlewood 28, tr 70 | 2 | |
| Davis 35 | 2 | |
| Davis 36 | 2 | |
| Culbertson 74 | 2 | |
| Curtis & Co. 48 | 2 | |
| N. W. M. Exp. Co. 58 | 2 | |
| Burdick 56 | 2 | |
| Burdick 57 | 2 | |
| F. L. Bourquin, Bourquin 2 | 7 | |
| D. Mooney, Mooney 1 | 4 | |
| D. J. Moody, Wormer 3 | 3 | |
| L. T. Schenfield, Schenfield 6 | 4 | |
| Bliss Oil Co., Burns 1 | 3 | |
| Anna J. VanTine, Van Tine 1 | 3 | |
| E. F. Curtis & Co., Curtis 2 | 5 | |
| E. Potter, Potter 8 | 4 | |

"If It's An ALCO Tool It's Modern"




# Here's The Bit for Hard Drilling



No matter where you are operating you can always have a supply of Demountable Cutter Blades for the Alco Hard Formation Bit. These Cutter Heads are built in our Shops to our high standard of quality manufacturing thereby insuring you of the best possible drilling results in both hard and soft formation. And they're economical too. Cheaper than rebuilding. Send for a supply today.

**ALCO OIL TOOL CO.**
P.O.Box A.
COMPTON. CALIFORNIA

"If It's An ALCO Tool It's Modern"

| Company, well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| H. F. Jack & Co. Jack 2, | 7 | .... |
| Pressure Oil Co., Howard 10 | 4 | .... |
| F. E. Baldwin, Baldwin 6 | 3 | .... |
| Baldwin 7 | 3 | .... |
| J. V. Golden, Golden 9 | 5 | .... |
| C. S. Knabb, Trustee, Griffith 2... | 8 | .... |
| Harris Oil Co. Bingham 188, tract 2 | 5 | .... |
| Wormer & Co., Wormer 2 | 3 | .... |
| Jeutter Bros., Borden 2 | 3 | .... |
| Kendall Refining Co. Jones 2 | 4 | .... |
| C. R. Bush, Greer-Simpson 1 | 10 | .... |
| Hazlewood Oil Co., Bingham 11 | 4 | .... |
| Bingham 486, tr. 12 | 7 | .... |
| Kahle Oil Co., Norton 2 | 3 | .... |
| G. A. Simpson, Sinmpson 2 | 4 | .... |
| Smith & Newton, Smith 2 | 4 | .... |
| Murphy & Co., Hostetter 1 | 7 | .... |
| N. V. V. Franchot, Loop Estate 6 | 4 | .... |
| Loop Estate 7 | 2 | .... |
| BUTLER COUNTY— | | |
| S. Steen, Dambaugh 5 | 3 | .... |
| Jamieson Bros., Storey 5 | 3 | .... |
| C. Campbell, Marburger 2 | 2 | .... |
| CLARION COUNTY— | | |
| Alum Rock Gas Co., Detwiler 1 | 5 | .... |
| W. A. Jannerat, Black 6 | 2 | .... |
| Myers Bros. & Co., Baughman 1 | 2 | .... |
| Sigworth & Co., Johnson 2 | ¶1 | .... |
| O'Neill Bros., O'Neill 11 | ¶1 | .... |
| F. L. Mong, Stuble 1 | ¶1 | .... |
| CENTER-MIDDLE FIELD— | | |
| J. C. Cochran, Lot 408, tr. 50.... | 3 | .... |
| Sloan & Zook, Lot 420, tr. 50..... | 2 | .... |
| BEAVER COUNTY— | | |
| American Gas Co. White Clay Coal 1 | * | .... |
| GREENE COUNTY— | | |
| Peoples Nat. Gas Co., P. Cole 1...¶1½ | | .... |
| ALLEGHENY COUNTY— | | |
| Buchler & McVacy, Weir 1 | 2 | .... |
| Sauers & Co., Rehm Heirs 1 | ¶½ | .... |
| VENANGO COUNTY— | | |
| Brundred Oil Corp., Cornen 74.... | 2 | .... |
| H. B. Melat, Kellerman 26 | 2 | .... |
| M. H. Hagerty, Hagerty 3 | 2 | .... |
| Lamberton & Hovis, Westlake 24 | 2 | .... |
| Moyer & Lamey, Caffrey 38..... | 2 | .... |
| Moyar Bros., Mitchell 94 | 2 | .... |
| Thomas McLaughlin, McLaughlin 11 | 2 | .... |
| **NEW YORK** | | |
| ALLEGANY COUNTY— | | |
| N. V. V. Franchot, Brandel Hrs. 17 | 4 | .... |
| Wilbert Oil Co., McDermitt 1 | 4 | .... |
| N. V. V. Franchot, Herrick 1 | 5 | .... |
| Meridian & Co., Meridian 1 | 3 | .... |
| C. O. Taylor & Co., Taylor 4 | 3 | .... |
| Stephen, Gallett & Co., Firkel 1 | 3 | .... |
| South Penn Oil Co., Kinley 1 | 3 | .... |
| First Nat. Bank of Olean, Birteill 13 | 2 | .... |
| Nelson Oil Co., Nelson 1 | 3 | .... |
| Ashworth & Herrick, Ashworth & Co. 1 | 2 | .... |
| E. G. Williams & Co., Williams 1.. | 2 | .... |
| Jacob Mareidan, Harbel & Co. 1.. | 2 | .... |
| Sepany Oil Co., Multrus 3 | 2 | .... |
| L. H. Garr & Co., Garr 1 | 2 | .... |
| C. M. Lippert & Co., Multrus 3 | 2 | .... |
| Willetts Estate, Willetts 1 | 2 | .... |
| Hazlewood Oil Co., Tract 1, Allegany 50 | 2 | .... |
| S. G. Ball & Co., Ball 1 | 2 | .... |
| A. D. Reeland & Co., South Penn 1 | 2 | .... |
| H. B. Thompson & Co., Thompson 2 | 2 | .... |
| J. E. LeSuer & Co., LeSuer 30... | 2 | .... |
| Martin Bros. & Co., Martin 1 | * | .... |
| **WEST VIRGINIA** | | |
| BOONE COUNTY— | | |
| Yawkey Oil & Gas Co., Pond Fork Coal 8 | ¶¼ | .... |
| C. C. Brinkley, Smith 1 | ¶½ | .... |
| Owens Bottle Machine Co., C. Chambers 1 | ¶½ | .... |
| E. Chambers 1 | ¶½ | .... |
| PUTNAM COUNTY— | | |
| George Salieman & Co., Mitchell 1 | ¶1¼ | .... |
| L. R. Sweetland & Co., Zerkle 2...¶1¼ | | .... |
| E. Day & Co., Markham 4 | ¶½ | .... |
| Snyder & Co., Wick 1 | ¶½ | .... |
| CABELL COUNTY— | | |
| Harshbarger Oil & Gas Co., Clark 1 | ¶¼ | .... |
| Connor 1 | ¶¼ | .... |
| United Fuel Gas Co., Clark 1 | ¶1 | .... |
| Aetna Oil & Gas Co., Hatfield 1 | ¶¼ | .... |
| RITCHIE COUNTY— | | |
| Mason Farm Oil Co., Mason 3.... | * | .... |
| Hope Natural Gas Co., Mullinex 1 | * | .... |
| Wilson 3 | * | .... |
| CALHOUN COUNTY— | | |
| Ohio Fuel Oil Co., Morris 1 | 5 | .... |
| Marttin Crowley, Pettit-Brown 1... | 4 | .... |
| WETZEL COUNTY— | | |
| Southern Oil Co., Morgan 1 | * | .... |
| H. P. Worden & Co., Morgan 1 | * | .... |
| NICHOLAS COUNTY— | | |
| L. T. Kountze & Co., Rafer 3 | ¶½ | .... |
| FAYETTE COUNTY— | | |
| United Fuel Gas Co., Fayette Coal 1 | ¶¼ | .... |
| LINCOLN COUNTY— | | |
| Earl Cameron, Stone 1 | ¶½ | .... |
| PLEASANTS COUNTY— | | |
| Hartman & Connolly, Ingraham 1.. | * | .... |
| **KENTUCKY** | | |
| OHIO COUNTY— | | |
| Daly & Lowman, Hamilton 6..... | 100 | .... |
| J. C. Ellis, Daniels 11 | 300 | .... |
| White Plains Oil & Gas Co., Kelley 3 | 35 | 412 |
| HANCOCK COUNTY— | | |
| Vickers & Co., Parrott 1 | 10 | 475 |
| BARREN COUNTY— | | |
| Esslinger Oil Co., Morton 5 | 50 | 500 |
| POWELL COUNTY— | | |
| Petroleum Exploration Co., Allen 1 | * | .... |
| DAVIESS COUNTY— | | |
| Miller & Damron, Tompkins 6..... | 100 | .... |
| Leeper Oil Co., Mahloskey 4 | 55 | .... |
| C. E. Daugherty & Co., Christian Hrs. 2 | 25 | .... |
| Massey 2 | 10 | .... |
| Eastern Gulf Oil Co. Ruby 1 | 20 | .... |
| Imperial O. & G. Co., U. S. Bank Land 2 | 10 | 931 |
| Moseley Bros., Head 1 | * | .... |
| **CENTRAL OHIO** | | |
| HOLMES COUNTY— | | |
| Ohio Fuel Supply Co., Sivett 1 | * | .... |
| Durban 1 | ¶¼ | .... |
| Reno Oil Co., Day 2 | ¶1 | .... |
| Perkins & Co., Colopy 1 | * | .... |
| O'Hall & Co., Kaylor Hrs. 1..... | ¶1 | .... |
| LICKING COUNTY— | | |
| The Pure Oil Co., Francis 1..... | * | .... |
| **NORTHWESTERN OHIO** | | |
| SENECA COUNTY— | | |
| J. H. Murphy & Son, J. H. Hunker 1 | 200 | 1394 |
| Muncey Valley Oil & Gas Co., Jacob Kimmett 4 | 50 | 1477 |
| T. G. O'Brien, Sendelbach 3..... | 60 | 1382 |
| McCray, Gibson & Co., Kimmel 1 | 20 | 1495 |
| ALLEN COUNTY— | | |
| B. L. Carman & Co., McCarey 1 | 100 | 1410 |
| HANCOCK COUNTY— | | |
| Bath Township Oil Co., Bryan 10.. | 25 | 1367 |
| SANDUSKY COUNTY— | | |
| C. C. Wolfe, Strauch 2 | 7 | 1308 |
| AUGLAIZE COUNTY— | | |
| Mack P. Colt, Gearing 4 | 4 | 1218 |
| WOOD COUNTY— | | |
| S. W. Bowman & Co., Weihl 1 | * | 1192 |
| **INDIANA** | | |
| GIBSON COUNTY— | | |
| F. A. Johnson, Summers 1..... | * | 1957 |
| Big Four Oil & Gas Co., Whiting 1 | * | 1695 |
| VIGO COUNTY— | | |
| Pierce & Co., Shattuc 1 | 60 | 2258 |
| PIKE COUNTY— | | |
| Mahutska Oil Co., Lindy 1 | ¶1¼ | 1572 |
| FLOYD COUNTY— | | |
| Unknown parties, Bud Burton 1 | ¶¼ | .... |
| **ILLINOIS** | | |
| LAWRENCE COUNTY— | | |
| The Ohio Oil Co., Hostletter 7... | 1 | .... |
| Snowden & McSweeney, Childress 9 | 2 | 1825 |
| Silurian Oil Co., Rose 9 | 5 | 1782 |
| Big Four Oil & Gas Co., Martin 1 | 1 | 1772 |
| **MICHIGAN** | | |
| MUSKEGON COUNTY— | | |
| Joliet-Morris Dev. Co., Ehler 1... | 50 | 1700 |
| Kelly Goldboss & Co., Burns 1 | 25 | 1700 |

# A. I. M. E. to Meet at Tulsa During Exposition

NEW YORK.—Announcement has been made from A. I. M. E. headquarters here that the mid-year meeting of the Petroleum Division will be held at Tulsa, Oklahoma, October 18 and 19. These dates fall during the International Petroleum Exposition and Congress and members attending the A. I. M. E. meeting will obtain the benefit of reduced fares to the exposition.

The oil show will undoubtedly be very interesting this year and the officers of the American Institute of Mining and Metallurgical Engineers have decided to devote the meeting this fall largely to petroleum engineering, as it is felt there will be a great many field operators attending the exposition and they will be interested in the latest information in regard to the more important phases of petroleum engineering, such as repressuring both flush and old pools, gas lift, deep well drilling, etc. With this thought in mind a program has been planned along that line. At present the principal papers outlined to be delivered at this session of the petroleum engineers are as follows:

"Measurements of Original Pressure, Temperature, and Gas-Oil Ratio in Oil Sands," by K. C. Sclater, chief production engineer, Marland Oil Company, Ponca City.

"Capillary Phenomena as Related to Oil Production. A discussion of Conditions in the Oil Reservoir that have Relation to Rate of Production and Ultimate Production," by F. G. Trickell, professor of Petroleum Engineering, Stanford University, California.

"The Oil Recovery Investigations of the United States Bureau of Mines," by R. Van A. Mills and Joseph Chalmers, petroleum engineers, United States Bureau of Mines, Bartlesville, Oklahoma.

"Repressuring during the Early Stages of Development," by C. E. Beecher, chief production engineer, Empire Oil & Refining Company, Bartlesville, Oklahoma.

"Deep Well Drilling," by R. S. Cartwright, research engineer, Prunty & Gladieux Drilling Company, Tonkawa, Oklahoma.

"Intermittent Injection of Gas in Gas-Lift Installations," by Morgan Walker, petroleum engineer, Amerada Petroleum Corporation, Tulsa.

"Supply and Demand of Petroleum during 1928," (Author not yet selected.)

"Deep Well Pumping in California," by H. N. Marsh, production engineer, General Petroleum Corporation of California, Los Angeles.

"Pumping Deep Wells in the Seminole Oil Fields, Oklahoma," by M. J. Kirwan, chief engineer, Indian Territory Illuminating Oil Company, Bartlesville.

*Six XOB Compressors on a Lease in the Bowlegs Field, Oklahoma. These Machines were Quickly Installed by Mounting them on Timber Sk'ds.*

# —So We Built the XOB

When the oil industry finally adopted gas lift and air lift as standard methods of production where applicable, there were several types of Ingersoll-Rand Compressors that answered the service requirements. We realized, however, that here was a field for a machine of special qualifications—a made-to-order compressor.

Our engineers in the oil fields studied the compression problems involved. They determined the specific needs. They gathered complete data. From these field observations, our designers obtained the facts essential to their work.

And so—after many years of experience in air lift and gas lift work—supplemented by a thorough consideration of up-to-date conditions, we built the XOB. How well we have built it is demonstrated by its widespread adoption. On the market only since December, 1926, you will find it today a decisive leader in the large gas lift and air lift fields.

By choosing the XOB, then, you get assured satisfactory performance. In addition you get Ingersoll-Rand service. Branch offices are maintained in the oil fields for your convenience.

INGERSOLL-RAND COMPANY
11 Broadway -:- -:- New York City
*Offices in principal cities the world over.*

912-C

# Ingersoll-Rand

# CRUDE OIL PRICE QUOTATIONS

## CRUDE PRICE CHANGES

July 20.—Effective at the opening of the market today the Stoll Oil Refining Company advanced the posted price of Western Kentucky crude five cents per barrel making the new price $1.55.

## CURRENT POSTINGS

### EASTERN STATES

| | July 25 1928 |
|---|---|
| New York Transit | $3.05 |
| Bradford District | 3.05 |
| National Transit | 2.90 |
| Southwest | 2.90 |
| Eureka | 2.85 |
| Buckeye | 2.65 |
| Macksburg | 2.80 |
| Gaines | 2.60 |
| Somerset | 1.55 |
| Cabell | 1.45 |
| Ragland | .95 |
| Corning, 35-cent grade | 1.45 |
| Corning, 25-cent grade | 1.55 |
| Keister | 1.20 |

### CENTRAL STATES

| | |
|---|---|
| Illinois | 1.50 |
| Indiana | 1.32 |
| Lima | 1.55 |
| Plymouth | 1.23 |
| Princeton | 1.50 |
| Waterloo | 1.35 |
| Wooster | 1.57 |

### WESTERN KENTUCKY

Posted by Stoll Refining Company for crude from Allen, Warren, Franklin, Davies, Barren.

| | |
|---|---|
| All grades | 1.55 |

### MID-CONTINENT

Prairie, Sinclair and Gulf

| | July 25 1928 |
|---|---|
| 28 to 28.9 gravity | .96 |
| 29 to 29.9 gravity | 1.01 |
| 30 to 30.9 gravity | 1.06 |
| 31 to 31.9 gravity | 1.11 |
| 32 to 32.9 gravity | 1.16 |
| 33 to 33.9 gravity | 1.19 |
| 34 to 34.9 gravity | 1.22 |
| 35 to 35.9 gravity | 1.25 |
| 36 to 36.9 gravity | 1.28 |
| 37 to 37.9 gravity | 1.31 |
| 38 to 38.9 gravity | 1.34 |
| 39 to 39.9 gravity | 1.37 |
| 40 to 40.9 gravity | 1.40 |
| 41 to 41.9 gravity | 1.43 |
| 42 to 42.9 gravity | 1.46 |
| 43 to 43.9 gravity | 1.49 |
| 44 to 44.9 gravity | 1.52 |
| 45 to 45.9 gravity | 1.55 |
| 46 to 46.9 gravity | 1.58 |
| 47 to 47.9 gravity | 1.61 |
| 48 to 48.9 gravity | 1.64 |
| 49 to 49.9 gravity | 1.67 |
| 50 to 50.9 gravity | 1.70 |
| 51 to 51.9 gravity | 1.73 |
| 52 and above | 1.76 |

### NORTH AND CENTRAL TEXAS

Ranger, North Texas, Mexia, Powell, Richland, Wortham, Currie, Moran, Nocona and Lytton Springs Crude

(Humble Oil and Refining Company and Gulf Refining Company)*

| | July 25 1928 |
|---|---|
| Below 25 gravity | .76 |
| 25 to 25.9 gravity | .81 |
| 26 to 26.9 gravity | .86 |
| 27 to 27.9 gravity | .91 |
| 28 to 28.9 gravity | .96 |
| 29 to 29.9 gravity | 1.01 |
| 30 to 30.9 gravity | 1.06 |
| 31 to 31.9 gravity | 1.11 |
| 32 to 32.9 gravity | 1.16 |
| 33 to 33.9 gravity | 1.19 |
| 34 to 34.9 gravity | 1.22 |
| 35 to 35.9 gravity | 1.25 |
| 36 to 36.9 gravity | 1.28 |
| 37 to 37.9 gravity | 1.31 |
| 38 to 38.9 gravity | 1.34 |
| 39 to 39.9 gravity | 1.37 |
| 40 to 40.9 gravity | 1.40 |
| 41 to 41.9 gravity | 1.43 |
| 42 to 42.9 gravity | 1.46 |
| 43 to 43.9 gravity | 1.49 |
| 44 to 44.9 gravity | 1.52 |
| 45 to 45.9 gravity | 1.55 |
| 46 to 46.9 gravity | 1.58 |
| 47 to 47.9 gravity | 1.61 |
| 48 to 48.9 gravity | 1.64 |
| 49 to 49.9 gravity | 1.67 |
| 50 to 50.9 gravity | 1.70 |
| 51 to 51.9 gravity | 1.73 |
| 52 and above | 1.76 |

*Humble's postings stop at 44 and above, at $1.52.

### NORTH AND CENTRAL TEXAS

(The Texas Company and Magnolia Petroleum Company)*

| | July 25 1928 |
|---|---|
| 24 to 24.9 gravity | .76 |
| 25 to 25.9 gravity | .81 |
| 26 to 26.9 gravity | .86 |
| 27 to 27.9 gravity | .91 |
| 28 to 28.9 gravity | .96 |
| 29 to 29.9 gravity | 1.01 |
| 30 to 30.9 gravity | 1.06 |
| 31 to 31.9 gravity | 1.11 |
| 32 to 32.9 gravity | 1.16 |
| 33 to 33.9 gravity | 1.19 |
| 34 to 34.9 gravity | 1.22 |
| 35 to 35.9 gravity | 1.25 |
| 36 to 36.9 gravity | 1.28 |
| 37 to 37.9 gravity | 1.31 |
| 38 to 38.9 gravity | 1.34 |
| 39 to 39.9 gravity | 1.37 |
| 40 to 40.9 gravity | 1.40 |
| 41 to 41.9 gravity | 1.43 |
| 42 to 42.9 gravity | 1.46 |
| 43 to 43.9 gravity | 1.49 |
| 44 to 44.9 gravity | 1.52 |
| 45 to 45.9 gravity | 1.55 |
| 46 to 46.9 gravity | 1.58 |
| 47 to 47.9 gravity | 1.61 |
| 48 to 48.9 gravity | 1.64 |
| 49 to 49.9 gravity | 1.67 |
| 50 to 50.9 gravity | 1.70 |
| 51 to 51.9 gravity | 1.73 |
| 52 and above | 1.76 |

*Magnolia Petroleum Company posts the schedule below on oil below 30 gravity and from 30 gravity up to 31.9. Beginning with 32 to 32.9, Magnolia's posting is the same as that of The Texas Company.

| | |
|---|---|
| Below 30 gravity | .75 |
| 30 to 30.9 gravity | .90 |
| 31 to 31.9 gravity | 1.05 |

Corsicana heavy is $1.00 posted by Magnolia.

### SOUTH TEXAS

| | |
|---|---|
| Mirando | 1.00 |

### SOMERSET

Grayburg

| | July 25 1928 |
|---|---|
| Below 33 gravity | 1.05 |
| 33 to 33.9 gravity | 1.07 |
| 34 to 34.9 gravity | 1.09 |
| 35 to 35.9 gravity | 1.11 |
| 36 to 36.9 gravity | 1.13 |
| 37 to 37.9 gravity | 1.15 |
| 38 and above | 1.17 |

### GULF COAST

| | |
|---|---|
| Grade "A" all companies | 1.20 |
| Gulf Coast Light Oil, below 25 | 1.15 |
| 25 to 25.9 gravity | 1.17 |
| 26 to 26.9 gravity | 1.19 |
| 27 to 27.9 gravity | 1.21 |
| 28 to 28.9 gravity | 1.23 |
| 29 to 29.9 gravity | 1.25 |
| 30 to 30.9 gravity | 1.27 |
| 31 to 31.9 gravity | 1.29 |
| 32 to 32.9 gravity | 1.31 |
| 33 to 33.9 gravity | 1.33 |
| 34 to 34.9 gravity | 1.35 |
| 35 to 35.9 gravity | 1.37 |
| 36 to 36.9 gravity | 1.39 |
| 37 to 37.9 gravity | 1.41 |
| 38 to 38.9 gravity | 1.43 |
| 39 to 39.9 gravity | 1.45 |
| 40 and above | 1.47 |

*Humble Oil & Refining Company's postings on Gulf Coast Light stop at 35 to 35.9. Its price on all crudes above 35 to $1.37 per barrel.

Magnolia Petroleum Company's postings stop at 31 to 31.9.

## CALIFORNIA CRUDE OIL PRICES AT THE WELL

Following are the current prices offered by Standard Oil Company for crude oil at the well: (Price per barrel of 42 gallons in fields indicated.)

| Gravity (degrees) | Signal Hill | Seal Beach | Huntington Beach | Inglewood | Olinda-Brea Canon | Athens-Rosecrans Dominguez | Torrance | Richfield | Whittier La Harbra | Montebello | Coyotte Hill | Santa Fee Springs | Newhall McKittrick Kern River | Midway Sunset Elk Hills | Buena Vista Hills | Lost Hills | Coalinga | Wheeler |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14-14-9 | $ .85 | $ .85 | $ .85 | $ .85 | $ .85 | $ .. | $ .85 | $ .85 | $ .85 | $ .85 | $ .85 | $ .. | $ .75 | $ .75 | $ .75 | $ .75 | $ .75 | $ .75 |
| 15-15-9 | .85 | .85 | .85 | .85 | .85 | .. | .85 | .85 | .85 | .85 | .85 | .. | .75 | .75 | .75 | .75 | .75 | .75 |
| 16-16-9 | .85 | .85 | .85 | .85 | .85 | .. | .85 | .85 | .85 | .85 | .85 | .. | .75 | .75 | .75 | .75 | .75 | .75 |
| 17-17-9 | .85 | .85 | .85 | .85 | .85 | .. | .85 | .85 | .85 | .85 | .85 | .. | .75 | .75 | .75 | .75 | .75 | .75 |
| 18-18-9 | .85 | .85 | .85 | .85 | .85 | .. | .85 | .85 | .85 | .85 | .85 | .. | .75 | .75 | .75 | .75 | .75 | .75 |
| 19-19-9 | .85 | .85 | .85 | .85 | .85 | .. | .85 | .85 | .85 | .85 | .85 | .. | .75 | .75 | .75 | .75 | .75 | .75 |
| 20-20-9 | .85 | .85 | .85 | .85 | .85 | .. | .85 | .85 | .85 | .85 | .85 | .. | .. | .77 | .77 | .77 | .76 | .76 |
| 21-21-9 | .86 | .86 | .86 | .86 | .86 | .. | .86 | .86 | .85 | .85 | .86 | .85 | .. | .79 | .79 | .79 | .77 | .77 |
| 22-22-9 | .87 | .87 | .87 | .87 | .87 | .. | .87 | .87 | .85 | .85 | .87 | .85 | .. | .81 | .81 | .81 | .78 | .78 |
| 23-23-9 | .88 | .88 | .88 | .88 | .88 | .. | .88 | .88 | .. | .85 | .88 | .85 | .. | .83 | .83 | .83 | .79 | .79 |
| 24-24-9 | .89 | .89 | .89 | .89 | .89 | .. | .89 | .89 | .. | .85 | .89 | .85 | .. | .85 | .85 | .85 | .80 | .80 |
| 25-25-9 | .90 | .90 | .90 | .90 | .90 | .90 | .90 | .90 | .. | .86 | .90 | .86 | .. | .87 | .87 | .87 | .81 | .81 |
| 26-26-9 | .92 | .92 | .92 | .92 | .92 | .92 | .92 | .92 | .. | .87 | .91 | .87 | .. | .89 | .89 | .89 | .83 | .82 |
| 27-27-9 | .94 | .94 | .94 | .94 | .94 | .94 | .94 | .94 | .. | .88 | .92 | .88 | .. | .91 | .91 | .91 | .85 | .83 |
| 28-28-9 | .96 | .96 | .96 | .96 | .96 | .96 | .96 | .96 | .. | .89 | .93 | .89 | .. | .93 | .93 | .93 | .87 | .. |
| 29-29-9 | .98 | .98 | .98 | .. | .98 | .98 | .. | 1.00 | .. | .91 | .95 | .93 | .. | .99 | .99 | .99 | .91 | .. |
| 30-30-9 | 1.00 | 1.00 | 1.00 | .. | 1.00 | 1.00 | .. | .. | .. | .. | .. | .95 | .. | 1.02 | 1.02 | 1.02 | .93 | .. |
| 31-31-9 | 1.03 | 1.03 | 1.03 | .. | .. | 1.03 | .. | .. | .. | .. | .. | .97 | .. | 1.05 | 1.05 | 1.05 | .95 | .. |
| 32-32-9 | 1.06 | 1.06 | 1.06 | .. | .. | 1.06 | .. | .. | .. | .. | .. | .99 | .. | 1.08 | 1.08 | 1.08 | .97 | .. |
| 33-33-9 | .. | .. | .. | .. | .. | 1.09 | .. | .. | .. | .. | .. | 1.01 | .. | .. | .. | 1.11 | .99 | .. |
| 34-34-9 | .. | .. | .. | .. | .. | 1.12 | .. | .. | .. | .. | .. | 1.03 | .. | .. | .. | .. | 1.01 | .. |
| 35-35-9 | .. | .. | .. | .. | .. | 1.15 | .. | .. | .. | .. | .. | 1.06 | .. | .. | .. | .. | .. | .. |
| 36-36-9 | .. | .. | .. | .. | .. | 1.18 | .. | .. | .. | .. | .. | 1.09 | .. | .. | .. | .. | .. | .. |
| 37-37-9 | .. | .. | .. | .. | .. | 1.21 | .. | .. | .. | .. | .. | 1.12 | .. | .. | .. | .. | .. | .. |
| 38-38-9 | .. | .. | .. | .. | .. | 1.24 | .. | .. | .. | .. | .. | 1.15 | .. | .. | .. | .. | .. | .. |
| 39-39-9 | .. | .. | .. | .. | .. | 1.27 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 40-40-9 | .. | .. | .. | .. | .. | 1.30 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 41-41-9 | .. | .. | .. | .. | .. | 1.33 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 42-42-9 | .. | .. | .. | .. | .. | 1.36 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |

# *Your friend* **The Oil Doctor** *will show you the way to stop your cut oil losses!*

Emulsions and cut oil worry many a producer—for they always mean lost profits. The clientele of the Official Oil Doctor have no such pains in their pocketbooks; no such worries over what to do about cut oil.

Your friend, the Oil Doctor, has prescribed for and cured many a case of acute loss of profits from this cause. He's a specialist in emulsions and how to do away with them *at a profit.*

Learn how "Petreco" electrical dehydration—that's the Oil Doctor's method—will change your most stubborn emulsions into good pipeline oil. Send for his free book "The Electrical Process for the Dehydration of Crude Oil Emulsions." It's well worth reading—and it tells how "Petreco" electrical dehydration turns cut oil losses into profits.

PETROLEUM RECTIFYING COMPANY of CALIFORNIA

Security Title Insurance Bldg. 530 West 6th Street, Los Angeles, Calif.

Petroleum Bldg., Houston, Texas

# Petreco

*Say you saw it in The OIL WEEKLY*

| | July 25 1928 |
|---|---|
| **The Texas Company** | |
| **MARKHAM** | |
| All grades | 1.00 |
| **LULING** | |
| All grades | 1.00 |
| **PANHANDLE** | |
| **GRAY COUNTY** | |
| **(Humble Oil and Refining Company, Magnolia Petroleum Company and Gulf Refining Company)** | |
| Below 27 gravity | .60 |
| 27 to 27.9 gravity | .65 |
| 28 to 28.9 gravity | .70 |
| 29 to 29.9 gravity | .75 |
| 30 to 30.9 gravity | .80 |
| 31 to 31.9 gravity | .85 |
| 32 to 32.9 gravity | .90 |
| 33 to 33.9 gravity | .93 |
| 34 to 34.9 gravity | .96 |
| 35 to 35.9 gravity | .99 |
| 36 to 36.9 gravity | 1.02 |
| 37 to 37.9 gravity | 1.05 |
| 38 to 38.9 gravity | 1.08 |
| 39 to 39.9 gravity | 1.11 |
| 40 to 40.9 gravity | 1.14 |
| 41 to 41.9 gravity | 1.17 |
| 42 to 42.9 gravity | 1.20 |
| 43 to 43.9 gravity | 1.23 |
| 44 and above | 1.26 |
| **WHEELER COUNTY** | |
| **(Humble Oil and Refining Company and Magnolia Petroleum Company)** | |
| Below 29 gravity | .60 |
| 29 to 29.9 gravity | .65 |
| 30 to 30.9 gravity | .70 |
| 31 to 31.9 gravity | .75 |
| 32 to 32.9 gravity | .80 |
| 33 to 33.9 gravity | .83 |
| 34 to 34.9 gravity | .86 |
| 35 to 35.9 gravity | .89 |
| 36 to 36.9 gravity | .92 |
| 37 to 37.9 gravity | .95 |
| 38 to 38.9 gravity | .98 |
| 39 to 39.9 gravity | 1.01 |
| 40 to 40.9 gravity | 1.04 |
| 41 to 41.9 gravity | 1.07 |
| 42 to 42.9 gravity | 1.10 |
| 43 to 43.9 gravity | 1.13 |
| 44 and above | 1.16 |
| **CARSON-HUTCHINSON COUNTIES** | |
| **(Humble Oil and Refining Company, Magnolia Petroleum Company and Gulf Refining Company)** | |
| Below 31 gravity | .60 |
| 31 to 31.9 gravity | .65 |
| 32 to 32.9 gravity | .70 |
| 33 to 33.9 gravity | .73 |
| 34 to 34.9 gravity | .76 |
| 35 to 35.9 gravity | .79 |
| 36 to 36.9 gravity | .82 |
| 37 to 37.9 gravity | .85 |
| 38 to 38.9 gravity | .88 |
| 39 to 39.9 gravity | .91 |
| 40 to 40.9 gravity | .94 |
| 41 to 41.9 gravity | .97 |
| 42 to 42.9 gravity | 1.00 |
| 43 to 43.9 gravity | 1.03 |
| 44 and above | 1.06 |
| **WEST TEXAS** | |
| **(Humble, Gulf, Magnolia, The Marland Company and Southern Crude Oil Purchasing Company)*** | |
| Crane-Upton, Crockett, Pecos and Winkler Counties, all grades | .60 |
| *Gulf does not post in Winkler County; Magnolia posts only in Crane and Upton Counties; The Marland Company posts only in Crane, Upton and Crockett Counties; Southern posts only in Crane, Upton and Winkler Counties. | |
| **(Magnolia Petroleum Company)** | |
| Mitchell County | $ .80 |
| Howard-Glasscock County (shallow) | .80 |
| Howard-Glasscock County (deep) | .60 |
| **Col-Tex Refining Company** | |
| Howard and Mitchell Counties | $ .80 |
| **WYOMING-MONTANA** | |
| **Wyoming** | |
| Byron | 1.33 |
| Ferris | 1.60 |
| Elk Basin | 1.33 |
| Grass Creek | 1.33 |
| Rock Creek | 1.25 |
| Lost Soldier | .95 |
| Lance Creek | 1.33 |
| Mule Creek | 1.10 |
| Notches | .65 |
| Big Muddy | 1.25 |
| Osage | 1.33 |
| Hamilton Dome | .85 |
| Pilot Butte | 1.75 |
| Torchlight-Greybull | 1.33 |
| Lander | .80 |
| Simpson Ridge | .80 |
| Rex Lake | 1.10 |
| South Casper Creek-Poison Spider | 1.00 |
| **Salt Creek** | |
| **Midwest Refining Company** | |
| 29 to 29.9 gravity | 1.14 |
| 30 to 30.9 gravity | 1.16 |
| 31 to 31.9 gravity | 1.18 |
| 32 to 32.9 gravity | 1.20 |
| 33 to 33.9 gravity | 1.22 |
| 34 to 34.9 gravity | 1.24 |
| 35 to 35.9 gravity | 1.26 |
| 36 to 36.9 gravity | 1.28 |
| 37 and above | 1.30 |
| **MONTANA** | |
| Sunburst | $1.65 |
| Cat Creek | 1.33 |
| Lake Basin | 2.20 |
| **NEW MEXICO** | |
| Artesia | 1.00 |
| Hogback | 1.38 |
| **CANADA** | |
| Oil Springs | 2.02 |
| Petrolia | 1.95 |
| **LOUISIANA-ARKANSAS** | |
| **(All Companies)*** | |
| Homer, Haynesville, Caddo, El Dorado, De Soto and Crichton and Cotton Valley** | |
| Below 28 gravity | .91 |
| 28 to 28.9 gravity | .96 |
| 29 to 29.9 gravity | 1.01 |
| 30 to 30.9 gravity | 1.06 |
| 31 to 31.9 gravity | 1.11 |
| 32 to 32.9 gravity | 1.16 |
| 33 to 33.9 gravity | 1.19 |
| 34 to 34.9 gravity | 1.22 |
| 35 to 35.9 gravity | 1.25 |
| 36 to 36.9 gravity | 1.28 |
| 37 to 37.9 gravity | 1.31 |
| 38 to 38.9 gravity | 1.34 |
| 39 to 39.9 gravity | 1.37 |
| 40 to 40.9 gravity | 1.40 |
| 41 to 41.9 gravity | 1.43 |
| 42 to 42.9 gravity | 1.46 |
| 43 to 43.9 gravity | 1.49 |
| 44 to 44.9 gravity | 1.52 |
| 45 to 45.9 gravity | 1.55 |
| 46 to 46.9 gravity | 1.58 |
| 47 to 47.9 gravity | 1.61 |
| 48 to 48.9 gravity | 1.64 |
| 49 to 49.9 gravity | 1.67 |
| 50 to 50.9 gravity | 1.70 |
| 51 to 51.9 gravity | 1.73 |
| 52 and above | 1.76 |
| *Shreveport-Eldorado's postings stop at above 40 gravity. | |
| **Below 36 gravity, the posting on Cotton Valley is 75 cents. From 36 to 52 and above the regular gravity schedule is followed. | |
| **STEPHENS** | |
| **(All Companies)** | |
| Below 28 | .85 |
| 28 to 28.9 gravity | .87 |
| 29 to 29.9 gravity | .89 |
| 30 to 30.9 gravity | .91 |
| 31 to 31.9 gravity | .93 |
| 32 and above | .95 |
| **SMACKOVER** | |
| **(All Companies)** | |
| Below 24 gravity | .75 |
| 24 and above | .90 |
| Bellevue | 1.25 |
| Jennings | 1.15 |
| Vinton | 1.30 |
| Edgerly | 1.30 |
| Starks Dome | 1.30 |
| Urania | .85 |
| Calion | .75 |

## IMPORTS OF PETROLEUM AT PRINCIPAL UNITED STATES PORTS

American Petroleum Institute Figures (Barrels of 42 gallons)

| | Week Ended July 14 | Week Ended July 7 |
|---|---|---|
| AT ATLANTIC COAST PORTS | | |
| Baltimore | 131,000 | 150,000 |
| Boston | 147,000 | ..... |
| New York | 389,000 | 1,292,000 |
| Philadelphia | 268,000 | 225,000 |
| Others | 118,000 | 185,000 |
| Total | 1,053,000 | 1,852,000 |
| Daily Average | 150,429 | 264,571 |
| AT GULF COAST PORTS | | |
| Galveston District | 45,000 | 30,000 |
| New Orleans and Baton Rouge | 111,000 | 107,000 |
| Port Arthur and Sabine District | ..... | ..... |
| Tampa | 5,000 | ..... |
| Total | 161,000 | 137,000 |
| Daily Average | 23,000 | 19,571 |
| AT ALL UNITED STATES PORTS | | |
| Total | 1,214,000 | 1,989,000 |
| Daily Average | 173,429 | 284,142 |
| Daily Average Four Weeks Ended | 237,929 | 247,142 |

## RECEIPTS OF CALIFORNIA OIL AT ATLANTIC AND GULF COAST PORTS

American Petroleum Institute Figures (Barrels of 42 gallons)

| | Week Ended July 14 | Week Ended July 7 |
|---|---|---|
| AT ATLANTIC COAST PORTS | | |
| Baltimore | 173,000 | 80,000 |
| Boston | ..... | ..... |
| New York | ..... | ..... |
| Philadelphia | 80,000 | 78,000 |
| Others | 76,000 | ..... |
| Total | 329,000 | 158,000 |
| Daily Average | 47,000 | 22,571 |
| AT GULF COAST PORTS | | |
| Daily Average | ..... | ..... |
| Total—Atlantic and Gulf Coast Ports | 329,000 | 158,000 |
| Daily Average | 47,000 | 22,571 |
| Daily Average Four Weeks Ended | 60,429 | 62,821 |
| **Distribution of Total California Oil Receipts is as follows:** | | |
| Crude | ..... | ..... |
| Gasoline | 253,000 | 158,000 |
| Gas Oil | ..... | ..... |
| Fuel Oil | 76,000 | ..... |
| Total | 329,000 | 158,000 |

# It's the Final Spurt that Determines the Winner

### *Serving the Oil Fields in a New Way . . . at Wink*

**Right in the heart of the Hendricks pool the Hercules Supply Company opened a complete supply store, making supplies available for field use without the necessity of long-distance hauling and costly delay.**

### *. . . and Now in Wilbarger*

**In the center of Wilbarger County's present activities, at Grayback Crossing, Hercules has opened up another store to give immediate service to the man in the field. This store is approximately twenty miles south of both Vernon and Electra, forming the third point of a triangle with these two cities.**

**Supplies bought at this store save both time and money over hauling from railroad points.**

WITH fingers lightly touching the ground, one leg outstretched to give the initial push and bodies taut, they are ready to dash away at the crack of the starter's whistle.

It's an even start. Like a spring, they dart away from the starting line and, bunched together, they race swiftly but noiselessly up the track.

A gap appears, as the pace is too swift for one or two. But the main bunch is grouped and stays that way over most the distance.

Then close to the marker a leader steps out. He widens the gap with every step and breaks the tape a clear winner as all can see.

Servicing the oil fields is partly a race. It's generally an even start. And usually a close race as to service. But the company that throws itself into the job and grows stronger on service as the hour of delivery approaches is the company that can most be depended upon to put it over.

The HERCULES SUPPLY COMPANY takes a personal interest in your supplies from the moment of inquiry right on until you get just exactly what you want. If you are not already a customer we'd like to have you give us a trial.

American Wire Lines
Lucey Rotary Products

Etna Tubular Products
Standard Seamless Tubular Goods

## HERCULES SUPPLY CO.

J. T. McCARTHY JR

*Everything For Oil Wells*

*General Offices:* FORT WORTH

BORGER VERNON (Grayback Crossing) WORTHAM PYOTE (Wink)

*Say you saw it in The OIL WEEKLY*

# WILDCATS FROM ALL SECTIONS

## WEST TEXAS

**Completions**

| Company, well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| CROCKETT COUNTY— | | |
| Transcontinental Oil Co., Atwood 1. | * | 3048 |
| IRION COUNTY— | | |
| Richardson & Cochran, Stocks 1... | * | 600 |
| LYNN COUNTY— | | |
| Elpo Oil Co., Nevels 1 ..... | * | 3505 |
| PECOS COUNTY— | | |
| Farrell et al, University 1 ..... | * | 2247 |
| Mid-Kansas O. & G. Co., Pryor 1.. | * | 3330 |
| REAGAN COUNTY— | | |
| Moody Corp.-Herbert Oil Co., Walters 1 . ..... | * | 3006 |
| Texon Oil & Land Co., University-McBurnett 1 . ..... | * | 3103 |

ANDREWS COUNTY—Deep Rock Oil Co.'s Harris 1, elev 3173 ft, top salt 1705 ft, making gas, dr 4175 ft.

BORDEN COUNTY—E. L. Doheny et al's Koonsman 1, dr 375 ft.

BREWSTER COUNTY—Cowden-Cole et al's Jackson-Harmon 1-A, sd 930 ft. Forest Oil Corp.'s Skinner 1, sd 1150 ft. Van McPhail et al's McIntyre 1, fsh 1765 ft. Reese & White's Kimball 1, ur 1825 ft.

COKE COUNTY—Lipan Oil Co.'s Rawlings 1, cavey hole 2840 ft.

CONCHO COUNTY—Douglas Oil Co. et al's Harral 1, hfw dr 2525 ft. The Exploration Co.'s Hartgrove 2, machine.

CRANE COUNTY—Church-Fields et al's University 3, rig; University-Duoll 2, elev 2557 ft, top salt 1000 ft, co after shot 320 qts at 2886-3002 ft. C. C. Duffey et al's Cowden 2, dk. Gulf's Waddell 4, elev 2735 ft, top salt 1185 ft, top lime 3128 ft, co with 500 ft oih after shot 200 qts 3250-3305 ft, td 3528 ft. Evans-Anderson & Hughes' State Bank Fee 1, elev 2463 ft, top salt 525 ft, dr 2575 ft.

CROCKETT COUNTY—Anderson & Williams' University 1, sd 2510 ft. The California Co.'s Powell 1, top salt 1045 ft, testing pay 2554-70 ft; Powell 2, pumped 100 bbls 8 hrs, 2592-2613 ft. Hal Compton & Co.'s University 1, elev 2681 ft, top salt 1055 ft, co 1530 ft. W. W. Donnelly et al's Massie 1-A, dr 625 ft; Shannon-Middlebuster 2, (Sec. 18) dr 750 ft; Shannon-Powell 1, (Sec. 42) spd and sd. Fuhrman Pet. Corp.'s Padgett 1, lcn. McMan O. & G. Co. and Marland Prod. Co.'s Powell 1, elev 2715 ft, top salt 1075 ft, co making oil and water 2635-40 ft. Renee Oil Co.'s University 1, elev 2692 ft, top salt 1100 ft, top lime 2070 ft, sd 2500 ft. Republic Prod. Co.'s Powell 1-B, elev 2723 ft, top salt 1045 ft, dr 2550 ft. Simmons & Marland's University 1, sd 1130 ft.

CULBERSON COUNTY—Deep Rock Oil Co.'s Dettis 1, dr 1215 ft. J. M. Hickey et al's Finley 1, sd 1385 ft.

JEFF DAVIS COUNTY—Sam F. Means et al's J. Z. Means 1, sr 2975 ft.

EDWARDS COUNTY—Magnolia Pet. Co.'s Whitehead 2, dr 200 ft. McMan O. & G. Co.'s Schreiner 1, sd 610 ft.

EL PASO COUNTY—C. E. Sillix et al's Malone 1, sd 1010 ft.

FISHER COUNTY—Cranfill-Reynolds & Sun Oil Co.'s Willingham 1, elev 1788 ft, top lime 3040 ft, pull pipe with hfo 3096-3104 ft. Mid-West Exploration Co.'s Decker 1 and 2, lcns. R. W. Rainey et al's Marberry 2, elev 1929 ft, top lime 2995 ft, sd showing oil and water 3289 ft. Roeser-Pendleton & Landreth Prod. Corp.'s Decker 1, dr 215 ft. Texas Unity Oil Co.'s Reddus 1, dr 1425 ft.

GARZA COUNTY—Emerald Oil Co.'s Boren 3, elev 2533 ft, top salt 660 ft, top lime 1605 ft, dr 4625 ft.

GLASSCOCK COUNTY—Eastland Oil Co. and White Eagle O. & R. Co.'s Cox 1, rig. Landreth Prod. Co.'s Houston 2, elev 2609 ft, top salt 1265 ft, dr 3010 ft. Meriwether Oil Co.'s McDowell 2, elev 2522 ft, top salt 1000 ft, top lime 2510 ft, fsh 3630 ft. Roxana's Boston 1, elev 2713 ft, top salt 1205 ft, top lime 2760 ft, dr 3215 ft. World Oil Co.'s McDowell 1-B, elev 2523 ft, dr 895 ft.

TOM GREEN COUNTY—Cox & Hooper's Garlity 1, sd 350 ft. F. P. Green et al's Fee 1, sd 1065 ft. Tinker et al's Jones 1, sd 940 ft. McLaughlin & Ridge's Holder 1, sd 2655 ft.

HOWARD COUNTY—Amerada Pet. Corp.'s Roberts 1, elev 2773 ft, cem cas 2130 ft; Stewart 1, dr 2575 ft. Bristow & Merrick's Hooks 7, cem cas 1756 ft; Hooks 8, spd and sd. J. S. Cosden & Co.'s Roberts 1-A, elev 2777 ft, dr 2785 ft; Roberts 2-A, elev 2792 ft, dr 2550 ft; Roberts 3-A, elev 2754 ft, dr 1996 ft; Roberts 4-A, lcn. W. W. Donnelly et al's Clay 1, testing oil pay 1760 ft. F-H-E Oil Co. & Moody Corp.'s Roberts 3-B and 4-B, lcns; Roberts 1-C, dr 1980 ft; Roberts 6-E, swab 120 bbls oil per hr 3000 ft; Roberts 3-E to 7-E, lcns; Roberts 8-E, dr 1085 ft. Godley O. & G. Co.'s Hooks 6, cem cas 1729 ft; Hooks 7, lcn. Gulf's Clay 2, sd 1448 ft; Chalk 5, dr 735 ft. Greene O. & R. Co.'s Clay 2, dr 1245 ft. Geo. Henshaw et al's Eason-Settles 1, sd 1925 ft; Settles 1, sd 2692 ft. Laurel O. & G. Co.'s Read 1, elev 2375 ft, top salt 965 ft, dr 2910 ft. Magnolia Pet. Co.'s O'Daniel 2, dr 1605 ft; Roberts 4, elev 2704 ft, hfo 2573-83 ft, dr 2625 ft; Roberts 7, elev 2769 ft, top lime 2017 ft, dr hfo 2697 ft; Roberts 8, elev 2729 ft, top lime 2045 ft, sd hfo 2484-2684 ft; Roberts 9 and 10, rigs. Marland Prod. Co.'s Clay 1-F, dr 1350 ft; Roberts 1, lcn. Merrick & Lamb's Clay 4, sd 1519 ft. Mid-West Exploration Co.'s Clay 1, dr 500 ft. Owen-Sloan Corp. & Cosden & Co.'s Roberts 4, sd 2710 ft; Roberts 5, dr 2185 ft; Roberts 6, dr 1500 ft. Pure Oil Co.'s Chalk 6, lcn. Schermerhorn Oil Co.'s Roberts 2, dr 1230 ft. Sprague Oil Co.'s Roberts 1, dr 1375 ft. Sun Oil Co.'s Settles 2, elev 2717 ft, top lime 2120 ft, sd after swab 72 bbls oil in hour 2957-70 ft. Texon & Marland's Settles 3-A, rig; Settles 4-A, lcn. Ward Oil Co.'s Roberts 2, rig.

HUDSPETH COUNTY—Western States Oil Co.'s Gardner-Mosely 1, sd 2903 ft; S. W. Moore 1, sd 2240 ft.

IRION COUNTY—Empire's Sawyer 1, co 1490 ft. Kimbrough et al's Nutt 1, sd 1155 ft. Markey et al's Thompson 1, lcn. Mertzon Oil Co.'s Roach 1, dr 1005 ft. Moore & Kennedy et al's Tankersley 1, testing oil pay 1340 ft. Webb et al's Nutt 1, ur 1800 ft. West et al's Sugg 1, fsh 250 ft.

JONES COUNTY—Campbell et al's Dickinson 1, dr 610 ft. E. P. Campbell et al's Berry 1, rig. Cowboy Evans et al's King 1, sd 1300 ft. Hucony Gas Co. et al's Tiner 2, dr 2105 ft; Tiner 2, ur 765 ft. Hurley Oil Co.'s Gunther 1, sd 2503 ft. McMan O. & G. Co.'s Tiner 1, rig. Marland Prod. Co.'s Mason 4, rig. Mook-Texas Co.'s McCright 1, rig. Pandem Oil Corp.'s S. R. Cox 1, lcn. Phillips Pet. Co.'s S. Roy-Winters 1, rig; Sharp 1, elev 1881 ft, dr 2620 ft; Shrap 2, dr 1400 ft; Walling-Tessie 5, rig. Robert Oil Corp. & Cosden & Co.'s Grayson 2, elev 1878 ft, ur 2315 ft; Grayson 3, dr 1775 ft. Roeser-Pendleton & Landreth's Grayson 1, dr 2100 ft. Snowden & McSweeney's Bickley 1, dr 1480 ft. The Texas Co. and Cosden & Co.'s L. Carter 1, elev 1877 ft, sd 2050 ft. W. W. Zingery et al's John Thomas 1, lcn.

KENT COUNTY—Cosden & Co.'s Bilby 1, dr 500 ft. Phillips Pet. Co.'s Sandell 1, dr 1645 ft.

KING COUNTY—Humble's Pitchfork 1, sd 4035 ft. Texas Co.'s Johnson 1, ur 2565 ft.

LOVING COUNTY — Lockhart & Co.'s Bowers-Wells 1, elev 2690 ft, top salt 730 ft, dr 3410 ft; Hubbard 1, elev 2693 ft, top salt 708 ft, fsh 2250 ft; Fee 1, co bridge, td 4135 ft. Hadlock Oil Co.'s Russell 2, top salt 750 ft, top black lime 4230 ft, sd for shot in pay 4270-4310 ft.

MARTIN COUNTY—Phillips Pet. Co.'s Slaughter 1, elev 2726 ft, top salt 1685 ft, fsh 3430 ft.

MENARD COUNTY—Moody Corp.'s Allison 1, elev 2053 ft, sd 2805 ft. Panhandle Ref. Co. et al's Eckhardt 1, ur 1810 ft.

MIDLAND COUNTY—Shoup et al's Parks 1, elev 2871 ft, top salt 1740 ft, cem cas 2860 ft.

NOLAN COUNTY—Herbert Oil Co.'s Pepper 1, sd 485 ft.

PECOS COUNTY—Amerada Pet. Corp.'s Dillon 1, sd 1460 ft. Anderson et al's University 1, sd 1880 ft. Alexander & Lyles' Sellman 1, top salt 814 ft, dr 990 ft. Benedum & Tree's Corder 1-A, dr 1845 ft. Diamond Pet. Co.'s Blackstone 1, sd 2250 ft. Ditto Oil Co.'s Montgomery 1, sd 170 ft. Cowboy Evans et al's S. Byrens 1, sd 1065 ft. Bob Elmore et al's Holmes 2, sd 1600 ft. Fuhrman Pet. Corp.'s Ewing 1, elev 2325 ft, top salt 685 ft, dr 1370 ft. J. W. Grant et al's W. W. Turney 1, (dd) elev 2592 ft, dr 3545 ft. Olean Pet. Co.'s Harral 1, elev 3005 ft, top salt 845 ft, sd 2507 ft. Pecos Valley Oil Co.'s Fee 1, lcn. Phillips Pet. Co.'s Heyman-Nutt 1, elev 2943 ft, top lime 2085 ft, dr 2955 ft. Southern Crude's Scharbauer 1, elev 2680 ft, dr 2585 ft. Sun Oil Co.'s University 1, elev 2666 ft, top salt 1035 ft, top lime 1625 ft, ur 2025 ft. Transcontinental's University 1, elev 2552 ft, top salt 1035 ft, sd 3480 ft. Vacuum Oil Co.'s Elsinore 1, elev 3554 ft, dr 4055 ft. P. R. Whenlich & Co.'s Arnold 1, sd 240 ft. World Oil Co.'s Kloh 1, elev 2810 ft, dr 3106 ft.

PRESIDIO COUNTY — Empire-Delmar et al's Tootle 1, spd and sd.

REEVES COUNTY—Eastland Oil Co.-Vacuum & Geo. Lyles' Campbell 1, dr 840 ft. The Exploration Co.'s Kinney 1, elev 2847 ft, sd 2900 ft. E. W. Brooks-Thompson et al's Eddins 1, elev 2719 ft, sd 5658 ft.

RUNNELS COUNTY—Agnew & Sons' Russell 1, co 2165 ft. Gibson-Johnson's Rainwater 1, dr 2140 ft. Hamilton et al's Spill 1, rig. Kennedy et al's Talley 1, dr 2540 ft. Henry B. May et a's Schneider 1, sd 2516 ft. Pure Oil Co.'s Giesecke 1, dr 940 ft. Vacuum Oil Co. et al's Flannagan 1, elev 1767 ft, sd hfw 2720 ft; Fowler 1, elev 1706 ft, ur with hfw 2512 ft.

SCHLEICHER COUNTY — Long Bros. et al's Williams 1, dr 205 ft.

SCURRY COUNTY—R. B. Pender et al's Davis 1, rig.

STERLING COUNTY—Manhattan Oil Co.'s Ellwood 1, dr 2785 ft.

STONEWALL COUNTY — Henshaw Oil Corp.'s Moore 1, sd 3055 ft.

SUTTON COUNTY—Phillips Pet. Co.'s Holman 1, dr 1165 ft.

TERRELL COUNTY—Big Bend Oil Co.'s Bassett 1, rig. Champlin Ref. Co.'s Carter 1, elev 2884 ft, cavey hole 3425 ft. Milham Corp.'s Bassett 1, elev 2270 ft, dr 3695 ft. Keck-Pecos Oil Trust's Hamilton 1, dr 975 ft.

UPTON COUNTY—Buell-Hagan et al's Robbins 1, sd 180 ft. Marland & Wentz's Timms 1, elev 2836 ft, top salt 1460 ft, top lime 3330 ft, sd 3385 ft. F. P. Zoch et al's Union-Murphy 1, rig.

VAL VERDE COUNTY — Val Vert Oil Corp.'s Bassett 1, spd and sd.

WARD COUNTY — Denver Prod. & Ref. Co.'s Cherokee Fee 1, set cas 1730 ft.

WINKLER COUNTY—V. T. Bolin & Co. et al's Brown 1, elev 2847 ft, top salt 1302 ft, sd after shot, td 3211 ft. Empire's Daugherty 1, rig. Humble's Walton 1-B, elev 2844 ft, top salt 890 ft, top lime 2342 ft, tested 44 million ft dry gas 3150 ft and sd to cem cas. Roxana & Llano Oil Co.'s Scarborough 3, elev 2939 ft, top salt 1280 ft, top lime 2958 ft, sd 2960 ft. Sid Richardson & White Eagle O. & R. Co.'s O'Brien-Stockton 1, fsh 1804 ft. T. P. Coal & Oil Co.'s Daugherty 1, dr 1465 ft.

## TEXAS GULF COAST

**Completions**

| Company, well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| JEFFERSON COUNTY— | | |
| Oswald Dome Synd.'s Oswald 1... | * | 2935 |
| LIBERTY COUNTY— | | |
| Harrison Oil Co.'s Quintette 3.... | 4600 | 4317 |
| MATAGORDA COUNTY— | | |
| Gulf's Vinyard 1 ..... | * | 4865 |

AUSTIN COUNTY—Humble's Gotosky 3,

# *Improving* brand-new tools

SOUNDS like a queer idea. Yet many a brand-new casting, forging or piece of equipment is coated with Haynes Stellite before it is put to work. Maybe it is only a drop of Stellite on a belt shifter. Maybe it is enough to cover the edge of an oil well tool. Or it may be as much as 150 pounds on the wearing surfaces of a dredging cutter or grinder ring.

Regardless of the amount, Haynes Stellite pays for itself many times over. It increases production, reduces tool costs, saves time and labor.

Here is the reason. Haynes Stellite is an alloy of cobalt, chromium and tungsten. There's a combination that is hard — and hard to beat. It resists abrasion better than any other metal, and outlasts steel three to five times.

Many manufacturers now supply Stellited parts. In the form of welding rod, Haynes Stellite is always available. What's more, by the Stelliting process with the oxy-acetylene torch, you can apply it right in your own shop.

Be on the lookout for our sales representative and ask him some questions about the uses of Haynes Stellite. He may be able to save you some money.

Stelliting with

HAYNES STELLITE

HAYNES STELLITE COMPANY

*Unit of Union Carbide and Carbon Corporation*

UCC

DISTRICT SALES OFFICES

Chicago—*1949 Peoples Gas Bldg* Los Angeles—*1310 Santee Street*
Cleveland—*628 Keith Building* New York—*30 East 42d Street*
Detroit—*4-240 Gen'l Motors Bldg.* San Francisco—*114 Sansome St.*
Houston—*6119 Harrisburg Blvd.* Tulsa—*Exchange Nat. Bank Bldg.*

*General Offices*—Kokomo, Indiana

*Say you saw it in The OIL WEEKLY*

Raccoon Bend, dr 930 ft; Bracey 1, Raccoon Bend, dr 2218 ft; L. R. Urban 1, Raccoon Bend, dr 932 ft, producing dry gas. L. H. Weadock's Ward 1, sd.

BRAZORIA COUNTY—Roxana's Randon 1, Allen Dome. Poole A-2, Allen Dome, dr 3496 ft. Gulf's Perry 4, Stratton Ridge, dr 3839 ft.

CHAMBERS COUNTY—Pure Oil Co.'s Old River 1, Lost Lake, dk; Lost Lake 1, Lost Lake dome, sd 2998 ft, show oil; Lost River 1, Lost Lake dome, dr 4175 ft; Trinity River 1, Lost Lake dome, dk; Lost River Lake 1, Lost Lake dome, dk; Cut-Off Bayou, Lost Lake dome, dk. Humphrey Corp.'s Barber A-2, ru. R. L. Bartlett's Fisher 1, Barbers Hill, sd 2154 ft. Mills Bennett's Smith 1, lcn.

COLORADO COUNTY—Rich Oil Corp.'s Von Rosenberg 1, 2½ mi ne of Columbus, standing 2697 ft; Wallace 1, 1½ mi n of Alleyton, spudding. Humble's Simmanze 1, 2 mi se Altair, dr 708 ft. U. S. Oil & Gas Co.'s Swank 1, 6 mi s of Rock Island, dr 1100 ft.

FORT BEND COUNTY—Gulf's Trone 8, Long Point, dr plug 3547 ft; Wolf 10, Long Point, dr 598 ft; Moore 16, Moore's Field, dr 2191 ft, flowing salt water. Humble's Sugarland Industries 3, Sugarland dome, ru; Deathridge 1, Sugarland dome, dr 3118 in shale; Camp 1, Sugarland dome, ru; Dew 1, Sugarland, lcn; Sugarland Industries 2, Sugarland dome, flowing 62 bbls at 3341 ft through ¼-inch choke; gas pressure 1200 lbs. J. H. Diehl's Armstrong 1, 2 mi e Boling, sd 470 ft. The Texas Co.'s E. Farmer 1, Boling, dr 3740 ft.

HARDIN COUNTY—Chappel Hill Oil Co.'s Hale 1, 5 mi nw Sour Lake, sd 1810 ft. The Texas Co.'s Cruse 1, Batson, dr 2790 ft.

HARRIS COUNTY—Torsen et al's Stewart 1, 4 mi sw Genoa, dk. J. A. Hautier's Grouse 1, Green's Bayou, prep to start up, 1909 ft. Hunt et al's Lobit 1, 4 mi n Goose Creek, sd 2140 ft. Humble's Warren 4, Hockley, dr 3477 ft. Cedar Bayou Oil Co.'s Johnson 1, 8 mi n Goose Creek, sd 2370 ft. The Texas Co.'s House 21, Humble. Drummett et al's Brock 1, Almeda, dr 3205 ft. M. & S. Oil Co.'s Cook 1, 2 mi ne Crosby, dr 650 ft. Mrs. Baldwin et al's Kitsman 1, 2 mi n Cypress, sd 1725 ft.

JEFFERSON COUNTY — Deep Test Oil Co.'s McFaddin 1, 4 mi ne Spindle Top, sd 2175 ft. Gulf's Bordages 6, Fannett, dr 4048 ft, show of oil. So. Spindle Top O. & Dev. Co.'s Young 1, 1 mi w Nederland, sd 3425 ft. Port Arthur O. & Dev. Co.'s West 4, Westbury, coring at 4735 ft. A. M. Deems et al's Mashman 2, 1 mi s Voth, no report. The Texas Co.'s Gladys City 1, Spindle Top, sd 5291 ft. Beaumont Oil Co.'s Tyrrell 1, 2 mi w of Brooks, dk.

LIBERTY COUNTY—Barlow et al's Minchcliff 1, 12½ mi ne Cleveland, sd 2215 ft. The Texas Co.'s Pickett 2, nw extension S. Liberty, dr 3498 ft. Big Dome Interests' Finley 1, 2½ mi nw Hardin, ur 3277 ft. Humble's Sterling 2, Moss Bluff, 2240 ft, dry; Welder 8, S. Dayton, dr 3058 ft. Sun Oil Co.'s Kyle 1, Moss Bluff, sd 1769 ft.

MATAGORDA COUNTY — Matagorda County Dev. Co.'s Hawkins 1, Bay City, sd 1985 ft. Dr. P. S. Griffith et al's Robbins 1, e Citrus Grove, ru; Baer 1, 1½ mi n Gulf Hill, ur 1130 ft.

WASHINGTON COUNTY—Sun Oil Co.'s Schirmer 1, Brenham, dr 3384 ft.

WHARTON COUNTY—Nail et al's Groom 2, Wharton, sd 1130 ft.

## SOUTH LOUISIANA

**Completions**

| Company, well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| CAMERON PARISH— | | |
| Yount-Lee's State Land 12, Kelso Bayou | 1500 | 3946 |
| Roxana's Watkins 2 | * | 2290 |
| IBERIA PARISH— | | |
| Kling et al's Loreauville 1 | * | 1390 |

ASCENSION PARISH—Gulf's United Land Co. 8, Sorrento, dr 1768 ft. Triumph Oil Corp.'s Lacey 1, 1½ mi se Sorrentto, coring 1510 ft. Baton Rouge Pet. Co.'s Liotta 1, sd 350 ft.

CALCASIEU PARISH — Union Sulphur Co.'s Fee 729, Sulphur, dk; Fee 728, Sulphur dome, dr 4288 ft; Fee 730, Sulphur dome, dr 3285 ft; Kelly 1, Sulphur dome, dr 3138 ft. Lehay et al's Jones 2, dr 988 ft.

CAMERON PARISH—Pure's Sweet Lake 2, Sweet Lake, standing 5100 ft; Sweet Lake 3, Sweet Lake, dr 6344 ft; Sweet Lake 4, Sweet Lake, 200 bbls on air; Sweet Lake 5, Sweet Lake, fldw 3850 bbls. La. Land & Explo. Co.'s Calcasieu Lake B-2, ½ mi ne Kelso Bayou dome, tested sw 3771 ft; Calcasieu Lake A-2, Kelso Bayou dome, prep to set 12-inch csg 475 ft. Calcasieu Oil Co., Magnolia and Union Sulphur Co.'s Watkins 7, Kelso Bayou dome, dr 3185 ft; Watkins 8, Kelso Bayou, dr 969 ft; Watkins 4, Kelso Bayou, swabbing 3978 ft, show oil; Watkins 6, Kelso Bayou, lcn; Olevia 2, Kelso Bayou, sd 4434 ft. Yount-Lee Oil Co.'s State Land 14, Kelso Bayou, lcn; State Land 15, Kelso Bayou, lcn; State Land 16, Kelso Bayou, lcn; State Land 17, Kelso Bayou, lcn.

IBERIA PARISH—La. Land & Explo. Co.'s Vermilion Bay A-2, dr 3308 ft. Gulf's State Z-5, Loreauville, sd 50 ft.

IBERVILLE PARISH—Roxana's Wilbert 2, White Castle, dr 2758 ft. Standard of La.'s Wilbert 1, moving in material.

JEFF DAVIS PARISH—Welch Pet. Co.'s Purveiance 1, Welch, dr 4058 ft, show of oil at 4000 ft. Indiana-La. Oil Co.'s LeDoux 2, standing 1604 ft.

LA FOURCHE PARISH—Gulf's Stark 4, Thibodaux, abn 1368 ft.

PLAQUEMINE PARISH—Gusher Bill O. & G. Co.'s Park Plantation 1, sd 2060 ft.

ST. MARTIN PARISH — Rycade's Bayou Boullion 1, pulling 12½-inch csg to abn; Bayou Boullion 2, swabbing 66 bbls, plo. 3335 ft.. Bayou Boullion 3, dk; State 1, Bayou Boullion, dr 2830 ft shale, show oil; Martin 1, Bayou Boullion, dr 3075 ft, shale. Yount-Lee Oil Co.'s Louisiana Pet. Co. 2, Anse la Butte, dr 2875 ft. Bowie O. & G. Co.'s Begnaud 4, Anse la Butte, sd 3919 ft, prep to re-set new string.

ST. MARY PARISH—J. Dannenbaum's Viguerie 1, Charenton Beach, sd 3214 ft.

WEST BATON ROUGE PARISH—Grosse Tete O. & G. Co.'s Wilbert 1, standing 1560 ft.

WEST FELICIANA PARISH — Foster & Roberson's Raccourci 1, sd account of high water.

## SOUTHWEST TEXAS

**Completions**

| Company, well and Location | Initial Production Bbls. | Depth |
|---|---|---|
| JIM HOGG COUNTY— | | |
| St. Albans, Edward 2 | ¶50 | 2129 |
| WEBB COUNTY— | | |
| Cole Petroleum Co.'s No. 59 | 130 | 2345 |
| SAN PATRICIO COUNTY— | | |
| National Oil Co.'s McMullen 1 | * | 3320 |
| JIM WELLS COUNTY— | | |
| Cushing Oil Co.'s Perez 1 | * | 1650 |

CALDWELL COUNTY—Radcliff et al's Briscoe 1, 3 miles ne Luling, cemented 2975 ft. United North & South Dev. Co.'s Tiller 2, Luling, dr schist 7512 ft; Kelly 1, Luling, dr schist 7839 ft. Datex Oil Co.'s August 1, Branyon dist., dr 2815 ft. Luling O. & G. Co.'s Carter 2, sd 2647 ft. Davis et al's Young 1, Branyon dist., sd 2405 ft. Roxana Pet. Corp.'s Jolly 2, w of Lockhart, 30 bbls on pump 1296 ft. T. C. Hadley's Wilson 1, dk.

DUVAL COUNTY—National Oil Co.'s Bell 1, dr 2600 ft; R. Driscoll's Fee 12, preparing to dr in.

HIDALGO COUNTY—Dale Smith's Daskan 1, sd 3235 ft. Queen City O. & G. Co.'s American Land & Irrig. Co. 2, 3 miles n Mercedes, sd 700 ft.

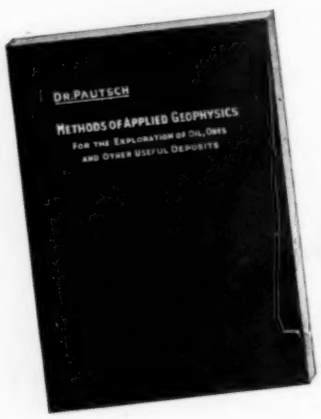
KINNEY COUNTY—Stephens et al's Clamp 1, sd 1515 ft.

MAVERICK COUNTY—Rycade Oil Corp.'s Chittim 1, Eagle Pass, td 5630 ft; Chittim 2, Eagle Pass, dr 6240 ft; Sullivan 3, Eagle Pass, dr 360 ft. Ryan Consolidated's India Land Co. 1, 24 miles se Eagle Pass, dr 4590 ft.

NUECES COUNTY—May et al's Gallagher 1, sd 450 ft. Grimm & Morris' Garrett 1, Aqua Dulce, dr 1450 ft.

STARR COUNTY—The Texas Co.'s Guerra 1, near Roma, dr 4230 ft.

VAL VERDE COUNTY—East Del Rio's Weatherbee 1, sd 3350 ft. Thraves et al's Wilson 1, sd 1125 ft. Valvert Oil Co.'s Bassett 1, dr 450 ft.


# Methods of Applied Geophysics

*For the Exploration of Oil, Ores, and Other Useful Deposits.*

*By*

DR. ERICH PAUTSCH, *Geophysicist*

It is the purpose of this work to give a short, concentrated presentation of the results of theoretical and experimental research in applied geophysics. It gives to the physicist the principle of the geophysical methods, and will interest and incite him to specialized study. It affords all those who are already working in one or another geophysical branch, an insight into all geophysical methods.

Complete with formulas and graphically illustrated. 82 pages, paper binding, price, $6.50, postpaid.

*Send check to*

THE GULF PUBLISHING COMPANY

P. O. Box 1307, Houston, Texas

# WEST TEXAS - The Land of Opportunity

An area rich in natural resources, WEST TEXAS offers advantages unsurpassed anywhere in the United States. Peopled by an intelligent citizenship that is ready to give encouragement to the further economical development of the territory.

Industrial and commercial expansion is keeping pace with the spread of the Oil Industry in WEST TEXAS. Today the opportunities of the section were never more promising for the establishment of new enterprises and the extension of trade territories.

Climatic conditions are favorable, abundant man-power is available and what is even more important a friendly spirit of co-operation pervades throughout the whole of WEST TEXAS.

***Communications are Invited from Those Interested***

Please Address

## WEST TEXAS CHAMBER OF COMMERCE

STAMFORD, TEXAS

***Or Any Chamber of Commerce or Board of City Development in West Texas***

## Control Flow of Oil and Gas by a Turn of the Gauge

Much labor, time and expense is saved by the Shaffer improved Flow Bean. With its adjustable feature the pressure and rate of flow of Gas and Oil is controlled to any desired degree by a turn of the handle.

**THE SHAFFER ADJUSTABLE FLOW BEAN**

permits throttling a well to any desired pressure without disturbing the current of oil and gas coming from the well.

Specify the Shaffer Adjustable Flow Bean for the best results.

**SHAFFER TOOL WORKS**

Brea DISTRIBUTORS California

Robt. N. Atmore Co., Tulsa, Okla. Robt. J. Miller Co., Houston, Texas

*Foreign Representative:* Oil Well Supply Company

Pittsburgh, Pa., U. S. A.; London, England; New York, U. S. A.; Tampico, Mexico



## BRONZE TO BRONZE

*Is the Reason*

**DART UNIONS**

Give Service
Try them

**E. M. Dart Mfg. Company**

PROVIDENCE, R. I.

The Fairbanks Company
Distributors

**EDGAR TOBIN AERIAL SURVEYS, Inc.**

1515 MAIN AVE.

SAN ANTONIO, TEXAS

PHONE CROCKETT 3383

*Aerial Mosaic Maps*


### OKLAHOMA

WOODS COUNTY—T 28n, R 18w, Sec 11, Geo. Vincent et al's Freedom 1, c sw ponds.

GRANT COUNTY—T 28n, R 3w, Sec 6, Otstot Dev. Co.'s Snyder, ne cor, sd 4518.

HARPER COUNTY—T 27n, R 21w, Sec 24, A. F. Kopisch Oil Co.'s Selman 1, ne c se, spud and sd.

WOODS COUNTY—T 27n, R 15w, Sec 20, Sooner State Oil Co. & E. R. Black's Marcum 1, c sw, spud and sd.

GRANT COUNTY—T 27n, R 5w, Sec 18, J. W. Bailey's Custard 1, c se, ts 4835-60 ft, 800,000 gas, ts 4878-83 ft slight increase in gas. c. o. T 26n, R 4w, Sec 34, Sooner State Oil Co.'s Royce 1, swc nw, sd 550 ft.

KAY COUNTY—T 26n, R 2e, Sec 32, J. A. Vincent & National Union Oil Co.'s McNeal 1, nwc ne, sd 2795 ft.

HARPER COUNTY—T 25n, R 22w, Sec 14, Hoffer Oil Co.'s Cooper 1, nwc se, sd 4182 ft; litigation.

GRANT COUNTY—T 25n, R 4w, Sec 22, Cowden No. 2 Vollner, nec se ne sw, lost tools 5640 ft sd.

KAY COUNTY—T 25n, R 1w, Sec 15, Tonkawa Dev. Co.'s McDaniels 11, sec, dlg 4653 ftt.

NOBLE COUNTY—T 24n, R 3e, Sec 11, Geo. Miller et al's Howe 1, c nw se, drlg 1430 ft. T 20n, R 1w, Sec 32, Marland Oil Co. et al's Kidd 1, nwc sw, Wilcox sand 5196-5200 ft, show of gas through HFW, will run core barrel and core.

TEXAS COUNTY—T 1n, R 18 ecm, Sec 11, Three Way Oil Co.'s Price 1, sec nw, sd 3490 ft.

WOODWARD COUNTY—T 24n, R 17w, Sec 32, Otstot Dev. Co.'s Simmons 1, sec, sd 1500 ft.

GARFIELD COUNTY—T 24n, R 6w, Sec 9, Pure & Beamer's White 1, sec nw, sd 4720 ft. T 24n, R 3w, Sec 14, Sagar Oil Co.'s Garsarch 1, sec, drlg by csg 4767 ft. Sec 24, Champlin & Marland's Stoner 1, (owd) nwc sd 4315 ft.

ELLIS COUNTY—T 21n, R 25w, Sec 9, Oklahoma Northern Oil Co.'s 1, c se nw, sd 300 ft.

WOODWARD COUNTY — T 21n, R 19w, Sec 15, Burgoyne Bros.' 1, swc se ne, ur 10 inches at 1305 ft. T 21n, R 21w, Sec 25, SCharon's Elmore 1, swc, rig blown down, td 2778 ft.

GARFIELD COUNTY—T 20n, R 4w, Sec 9, Marland Oil Co.'s Looman 1, nec se, sd 5735 ft, csg parted. Sec 12, Marland Oil Co.'s Miller 1, swc, sd 4586 ft.

DEWEY COUNTY—T 18n, R 15w, Sec 9, Huckelby & McCoy's Perfect 1, nec, fishg tools at 4335 ft.

LOGAN COUNTY—T 18n, R 3w, Sec 33, Haley & Consolidated Drilling Co.'s Quier 1, sec sw, run 5-inch csg past tools 3950 ft. T 18n, R 2w, Sec 21, Tibbets & Bond et al's Donohue 1, swc nw se, rig. T 17n, R 1e, Sec 28, T. B. Slick's Berry 1, sw se, td 5730 ft pb to 4700 ft.

KINGFISHER COUNTY—T 16n, R 7w, Sec 6, Gault Brown Oil Co.'s Campbell 1, c nw se, sd 4516 ft. T 16n, R 6w, Sec 27, Crawford & McKenna's Sturgeon 1, nec sw, sd 4509 ft.

BLAINE COUNTY—T 15n, R 12w, Sec 26, W. J. Donley's Dickens 1, sec ne, drlg.

CANADIAN COUNTY—T 14n, R 6w, Sec 9, A. D. Spears' Piatt 1, swc ne, sd 3223 ft.

OKLAHOMA COUNTY—T 13n, R 3w, Sec 18, T. B. Slick & Bailey's Lufkin 1, c ne se, sd 4510 ft. T 12n, R 3w, Sec 15, Cromwell et al's Thompson 1, swc ne ne, swb salt wtr at 6872 ft. T 11n, R 3w, Sec 24, I. T. I. O. Co.'s Park 1, c se se, drlg.

CANADIAN COUNTY—T 10n, R 6w, Sec 1, J. M. V. Bailey's Robinson 1, c ne nw, spud and sd.

OSAGE COUNTY—T 26n, R 7e, Sec 30, Peters Pet. Co. & Prod. & Ref. Corp.'s 1, sec ne. T 25n, R 6e, Sec 25, Amerada's 1, ne cor sw, drlg 150 ft. T 23n, R 10e, Sec 7, Sheeders O&G Co.'s 1, c ne, top Wilcox 2527-54 ft td 2640 ft show oil and HFW, pb to 2750 ft, shot 2 qts 2554-68 ft, showing for 5 bbls. blg & test.

PAWNEE COUNTY—T 22n, R 5e, Sec 33, Wahoma O&G Co.'s Buffalo 1, sec nw, drlg.

PAYNE COUNTY—T 18n, R 3e, Sec, 32, Garber. Pulse & Gloyd's Widows 1, nec se nw, sd 1200 ft.

LINCOLN COUNTY—T 17n, R 3e, Sec 20, Willis O&G Co.'s Gunn 1, nwc se, sand 4714-52

# LANDRETH PRODUCTION CORPORATION

## PETROLEUM PRODUCTS

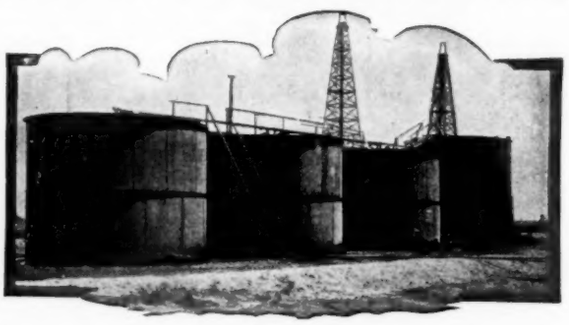
*General Offices*
Petroleum Building
FORT WORTH, TEXAS

# Columbian

## Bolted & Welded

# TANKS

## Stand Unrivaled for QUALITY & SERVICE



Over 75,000 Columbian Tanks are handling crude and refined products in the United States and foreign fields.

Our distributor organization, with stocks of tanks and competent erection crews, is established at locations to provide quick service in all fields.

The Factory is equipped to fabricate any sized order with a rapidity and precision that promotes satisfaction and gains appreciation from customers.

In Bolted Tanks, we furnish all standard capacities, including the recently developed and perfected 27,500 barrel size.

Our Engineering Department is prepared to take care of any special requirements developing with our clients at any time.

*A letter or wire will bring you any information you desire.*

**COLUMBIAN STEEL TANK COMPANY**

EST'D 1894 — TANKS FOR THE WORLD

1405-1625 WEST 12TH STREET KANSAS CITY, MISSOURI


ft HFW, plugging. T 13n, R 4e, Sec 16, Bu-Vi-Bar Pet.'s School Land 1, c ne se, sd 4500 ft.

OKFUSKEE COUNTY—T 12n, R 10e, Sec 31, Barnsdall's Tiger 1, swc ne, drlg 2275 ft. T 11n, R 10e, Sec 4, Moose & Daniels' Stidham 1, swc nw, sd 622 ft.

MUSKOGEE COUNTY—T 13n, R 17e, Sec 34, Elk D lg. Co.'s McKee 1, csl se se se, sd 160 ft. T 13n, R 18e, Sec 33, L. T. Haynie's Linder 1, c se, sd 2082 ft.

PITTSBURG COUNTY—T 9n, R 16e, Sec 32, Pattison et al's McDuff 1, swc nw se, 3 M gas at 1325-90 ft, 2 M gas at 1890-95 ft, Braden-headed Cromwell sand 3 M gas 4472-4525 ft, 3 M gas 4613-35 ft, Wilcox 5443-64 ft.

HASKELL COUNTY—T 9n, R 18e, Sec 10, Marion Oil Co.'s Sanders 1, nw ne sw, set 8-in c 2318 ft.

LATIMER COUNTY—T 5n, R 18e, Sec 15, Limestone O&G Co.'s Murray 1, swc c o 1700 ft.

POTTAWATOMIE COUNTY—T 10n, R 3e, Sec 12, Sikes, Kilgore & Shaffer's Ives 1, c se se, drlg by 5-in at 5490 ft.

SEMINOLE COUNTY—T 10n, R 6e, Sec 3, Superior's Davis 1, swc se, coring 3800-06 ft. T 10n, R 7e, Sec 6, Blackwell O&G et al's Bean 1, sec ne sw, Wilcox 4845-57 ft HFW, d and a. Sec 18, Shaffer et al's Jones 1, swc ne, dlg 4643 ft.

HUGHES COUNTY—T 9n, R 10e, Sec 26, Fuhrman Pet. Co.'s Buck 1, ne nw se, td 2584 ft, 12 M gas, show oil 2645-80 ft td.

POTTAWATOMIE COUNTY—T 8n, R 2e, Sec 24, Superior's Jones 1, sw nw ne, fishg 4660 ft.

HUGHES COUNTY—T 8n, R 10e, Sec 1, Bauer et al's Penn 1, nwc sw ne, drlg 1500 ft.

CLEVELAND COUNTY—T 7n, R 1w, Sec 15, Sooner Oil Co.'s Vandeveer 1, ne nw sw, 3120 ft sd.

POTTAWATOMIE COUNTY—T 7n, R 2e, Sec 17, T. B. Slick's Spangler 1, nw se nw nw, cemt 8-in at 4500 ft.

SEMINOLE COUNTY—T 7n, R 6e, Sec 7, Simon and Beam's Palmer 1, ne nw ne, ROG.

POTTAWATOMIE COUNTY—T 6n, R 5e, Sec 16, T. B. Slick's School Land 1, sec, dlg 4637 ft. Sec 20, Raxana's Deister 1, nwc se ne, td 3931 ft HF sulphur wtr co.

SEMINOLE COUNTY—T 6n, R 6e, Sec 1, T. B. Slick's Moore 1, sand 2870 td 2875 ft HFW, pb to 2760-75 ft, pump 200 bbls wtr and 7 bbls oil. Sec 10, Gypsy Oil Co. et al's Davis 1, se ne se, drlg 4036 ft. T 6n, R 7e, Sec 4, Shaffer O&R Co.'s Carolina 1, se sw ne, rvr.

HUGHES COUNTY—T 6n, R 8e, Sec. 32, T. B. Slick's Epperly 1, dlg 288 ft. T 5n, R 9e, Sec 17, E. W. Whitney's Huddleston 1, sec sw, dlg 640 ft.

GARVIN COUNTY—T 4n, R 3e, Sec 10, Garland Oil Co.'s Strickland 1, sw nw sw, 2758 ft HFW, dlg 2790 ft.

PONTOTOC COUNTY—T 3n, R 8e, Sec 10, Douglas' Johnson 1, c nw nw, dlg 2100 ft.

COAL COUNTY—T 2n, R 8e, Sec 5, Wilcox Oil Co.'s Folsom 1, c nw nw, location.

MURRAY COUNTY—T 1n, R 2e, Sec 17, Revels & McGee's Wolfe 1, nwc, sd 822 ft.

COAL COUNTY—T 1n, R 8e, Sec 35, W. E. McGraw et al's Patten 1, sw se ne, drlg 2815 ft. T 1n, R 9e, Sec 24, Galbreath et al's Jones 1, swc se, spud and sd.

CUSTER COUNTY—T 14n, R 14w, Sec 1, W. E. Witt's 1, c sw, location.

CADDO COUNTY—T 12n, R 11w, Sec 15, Abernathy & Ashton's 1, c nw, drlg 2712 ft.

ROGER MILLS COUNTY—T 11n, R 26w, Sec 1, L. C. Hivick's 1, c nw ne rvr.

BECKHAM COUNTY—T 9n, R 22w, Sec 32, O&H Pet. Co.'s Barnes 1, (owd) 3170 ft td, d and a.

KIOWA COUNTY—T 7n, R 15w, Sec 35, David Malernee's Van Kirkland 1, nwc, sd 858 ft. T 6n, R 15w, Sec 6, Johnson, McDowell's 1, c sw ne, fishg 1602 ft.

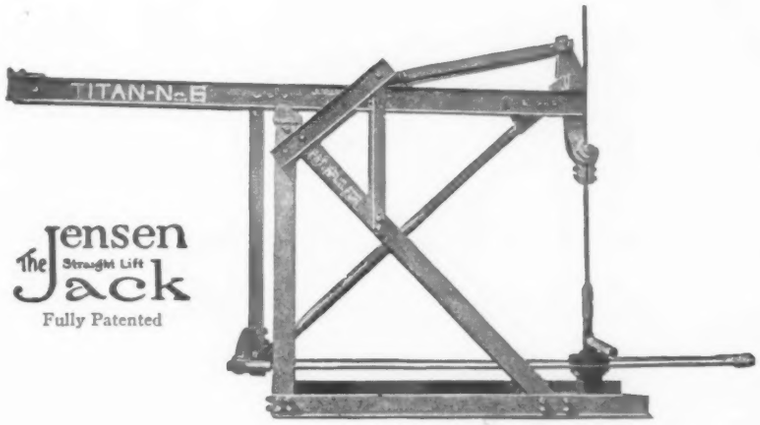
CADDO COUNTY—T 6n, R 12w, Sec 29, W. J. Hartley's Gilbreath 1, sec nw se, (owdd) sd 3395 ft.

KIOWA COUNTY—T 5n, R 14w, Sec 17, Blue Mt. Oil Co.'s Jones 1, sec nw nw, sd 625 ft.

GRADY COUNTY—T 4n, R 7w, Sec 21, Commercial Dev. Co.'s Crisman 1, c ne ne, sd 2940 ft. T 3n, R 7w, Sec 8, David Malernee's Brown 1, se nw sw, fishg 1750 ft.

STEPHENS COUNTY—T 2n, R 5w, Sec 20, Smythe & Martin's Vestal 1, c ne se, drlg 380 ft.

COMANCHE COUNTY—T 1n, R 12w, Sec




The Jensen Straight Lift Jack
Fully Patented

# More Oil!
## Less Expense

A LOT of Jensen Jack fans are happy because they never have any more stuffing box or polish rod trouble, and because other equipment above and below ground seems to be better synchronized. But the ideal situation—and this happens often—is where Jensen Jacks not only lower operating expense but actually increase the number of barrels of oil per day. Write for catalog.

**JENSEN BROTHERS MFG. CO.**
COFFEYVILLE, KAN.
*Export Office:* 136 Liberty St., New York City

# JENSEN JACKS

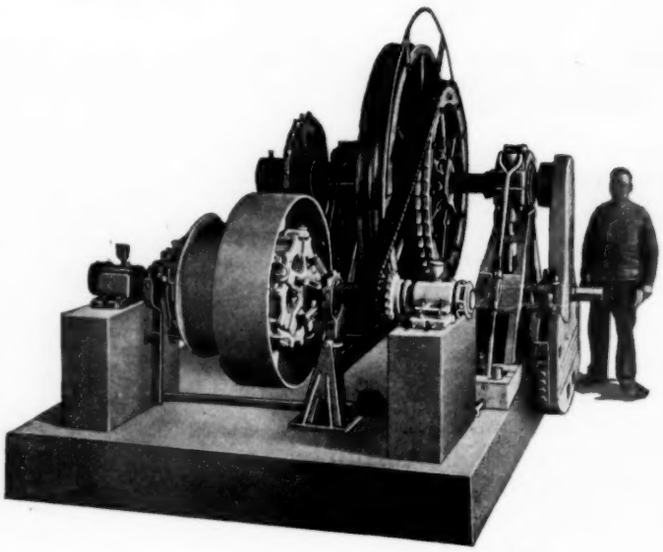
*—and Pumping Units, too!*

# OCS

## Drilling and Pumping Machine

*Equipped to Drive*

BULL AND CALF WHEELS AND SAND REEL



POWER

Electric, Gas, Oil or Steam

WITH THE O. C. S.
COUNTERSHAFT CLUTCH

or

the O. C. S. Diamond Timken Reduction Unit
FOR USE WITH ELECTRIC MOTORS

*Manufactured by*

THE OIL COUNTRY SPECIALTIES MFG. CO.

COFFEYVILLE, KANSAS

*Request Bulletin 85-C*


14, P. Hrbacek & A. E. Korthaus' Wilson 1, c ne sw, (owd) sd 3430 ft.

JACKSON COUNTY—T 1s, R 20w, Sec 33, Stanley-McGregor's 1, sw nw sw, drlg 1691 ft.

TILLMAN COUNTY—T 1s, R 15w, Sec 9, Bray et al's Barker 1, c se nw, sd 850 ft.

STEPHENS COUNTY—T 1s, R 6w, Sec 16, Insligs-Russell's Perry 1, nec sw nw, sand 1145-55 ft, small show of gas, testing.

TILLMAN COUNTY—T 2s, R 17w, Sec 23, A. J. Bundy's Hayter 1, cnl s½ se, 8-in at 590 ft.

KIOWA COUNTY—T 2s, R 16w, Sec 6, Landfair et al's 1, sec sw se, sd 2464 ft.

COTTON COUNTY—T 4s, R 12w, Sec 16, Guiler & Pyson's Thomas 1, sec sw, spud and sd.

TILLMAN COUNTY—T 5s, R 13w, Sec 11, Everts et al's Indian 1, sw nw ne, drlg 1735 ft.

JEFFERSON COUNTY—T 5s, R 8w, Sec 28, Amerada's Emerson 1, nw se sw, sd 3045 ft, pipe collapsed.

JOHNSON COUNTY—T 1s, R 7e, Sec 29, Smity-Kingsley's Lane 1, sec nw, dlg 340 ft. T 4s, R 4e, Sec 18, Wirt Franklin Pet. Corp.'s Wilkes 1, swc se( drlg 3015 ft.

MARSHALL COUNTY—T 4s, R 4e, Sec 35, Wirt Franklin Pet. Corp.'s Foster 1, sec sw sw nw, drlg 1160 ft.

## MOUNTAIN STATES

### MONTANA

BLAINE—Ohio Oil Co., Winngert 1, 3-34n-22e, dr 500 ft.

CASCADE—Winther et al's Roth 1, sw 11-22-1e, dr 500 ft.

CARBON—Ohio Oil Co.'s Northern Pacific 1, 11-7s-21e, dr 4424 ft.

CHOTEAU—Williston-Shelby, Flack 1, se 12-28-11e, dr 1910 ft.

GARFIELD—Carroll Bros. ne 6-14n-31e, dr below 200 ft.

HILL—Jones Oil Co.'s Mangell 1, 32-32-14, td 267 ft. Jones Oil Co.'s Mangell 2, nw 32-34-14, rig. McFarland et al's Boxelder 1, sw 15-30-13e, 12-inch cemented at 1080 ft.

LIBERTY—Sunburst O. & R. Co.'s Disotell 1, 10-37-5e, td 3015 ft. Square Deal Oil Co.'s Federal Land Bank 1, se 1-32-72, dr 1295 ft.

PONDERA—Calpet, Copley 1, ne 14-27-4w, dr 450 ft. Continental Dev. Co.'s Gjullin 2, nw 15-27-4w, dr 1450 ft. Calpet's Kingsbury 1, sw 15-27-4w, fsh 1780 ft. Texas-Pacifis Coal & Oil Co.'s Hirschberg 2, 14-27-4w, dr 940 ft. Texas-Pacific Coal & Oil Co.'s Hirschberg 3, 14-27-4w, rig, spd. McCracken et al's Gjullin 1, 10-27-4w, dr 600 ft. Ohio Oil Co.'s Hirshberg 1, 15-27-4w, dr 700 ft. Peerless Dev. Co.'s State 1, sw 16-27-3w, rig up. Fulton Pet. Corp.'s State 2, nw 16-27-4w, rig. Texas Pacific's Hirshberg 4, sw 14-27-4w, rigging.

TETON—Elkhorn O. & G. Co.'s 1, ne 12-24-1e, sd 100 ft. "56" Pet. Corp.'s Speer 1, ne 4-25-1e, dr 500 ft. Mitchener et al, Willick 1, ne 18-24-1e, sulfur water at 1606 ft will deepen. C. L. Archer et al's 1, se 31-26-1e, dr 1200 ft. Hardrock Oil Co.'s Speer 2, sw 5-25-1e, spd. Fulton Pet. Corp.'s Hirshberg 1, ne 22-27-4w, lcn.

TOOLE—Madeline Oil Co.'s Swenson 1, ne 33-35-4w, abn 2200 ft.

### WYOMING

BIG HORN—Utah Southern Oil Co. 3, 29-56n-97w, dr 3445 ft. Producers & Refiners, 3, 24-56n-98w, dr 2555 ft. Assurance Oil Co., 25-51n-93w, rig. Prescott-Bert 3, 30-51n-92w, spdg. Cross Gas Co., 1, 23-26n-97w, cas cem 1934 ft.

CARBON — Graybeal Dome Synd., 16-22-80w, cas trouble 4600 ft.

CONVERSE—Hollingsworth & Gorham, ne 8-32-72, dr 775 ft. Criterion Oil Co., Irvine 1, 5-31-70, moving in more casing.

FREMONT—Producers & Refiners, Muskrat 1, 34-34-92,f sh bit 4050 ft. Texas Production Co., Alkali Butte 1, 1-33-95, cem cas 3641 ft. Martin Falk, No. 2, ne 9-31n-98w, dr in blue lime. R. A. Brett et al, Haywire 1, se 29-32n-98w, sd. Solar Pet. Co., 29-32n-98w, cas cem 2100 ft.

JOHNSON—Fairway Oil Co., Crazy Woman 1, 7-47-82, will resume 2367 ft. Tarrant Synd., 17-46n-82w, dr 3560 ft.

LINCOLN—Midwest Exploration Co., Waterfall 1, sw 35-22-113, dr 320 ft. Viking Oil Co.,

# "The electrical installation is now about completed

*Showing the Pecos Valley Power Plant and Camp*

## and has already resulted in a 45% reduction of the field force. *This force will still further be reduced 23% next month...*"

This is an excerpt from a letter written by a user of Pecos Valley Power.

It is the recognition of such facts that is responsible for the installation of hundreds of well pumping motors in West Texas.

Electrically drilled wells are free from trouble in every stage, have no water or fuel shortages, and are served with an abundant supply of power constantly available.

Pipe line pumping stations are almost universally electrically equipped in West Texas.

In Crane, Upton, Reagan, Pecos, Ward and Crockett Counties you will find that by far the greatest number of electrically equipped well pumping and drilling operations receive their power from Pecos Valley Power & Light Company.

*Here are a few of the users of Pecos Valley power:*

| | |
|---|---|
| Gulf Production Co. | Texas Company |
| Big Lake Oil Co. | Tidal Oil Company |
| Texon Oil and Land Co. | Reagan Purchasing Co. |
| Marland Oil Co. of Texas | Gulf Pipe Line Co. |
| Simms Oil Co. | Richmond Drilling Co. |
| Chaplin Refining Co. | Cotter-Sawtelle Drilling Co. |
| The California Co. | Roxana Petroleum Co. |
| Humble Oil and Refining Co. | Kirby Petroleum Co. |
| | Grayburg Oil Co. |
| Southern Pipe Line Co. | Magnolia Petroleum Co. |

# Pecos Valley Power & Light Co.

*Plant:* Girvin, Texas *General Offices:* Fort Worth National Bank Bldg., Fort Worth

33-25-112, spdg. Quad States Enterprise, Inc., 11-19n-116w, dr 550 ft.

NATRONA—M. C. Weisman et al, se 4-30-81, dr 1900 ft.

NOBRARA—Buck Creek Oil Co., 4-36n-62w, producing 100 bbls.

PARK—California Exploration Co., 1A, 29-48-103, dr 1200 ft. Fred G. Ostland, Hoodoo Ranch 1, 23-51-101, td 1740 ft. E. H. Rosenburg, 25-58n-98w, dr below 1800 ft. California Exploration Co. and P. & R., Pitchfork 1, 14-48n-102w, set 15½-inch at 780 ft. Ohio Oil Co., 27-53-101, dr 3685 ft. Lenco Pet. Co., 20-53-101, sd 100 ft. Ydoc Oil Co., ne 6-15n-101w, sd 735 ft. Union of California Taylor 1, 22-47-101, testing 3780 ft. N. F. Clark et al, se 11-49n-102w, dr 1570 ft. Resolute Oil Co., nw 17-57-101, dr 140 ft.

PLATTE—Walter Adams, Trustee, 13-25-66, set cas and cem.

SUBLETTE—Wyoming Producers, 30-28-113, completed oil well.

SWEETWATER—Prairie Oil & Gas Co., Tucker 1, 18-13-99, dr 1010 ft. P. & R.-Marland of Colorado, 26-20-104, gas sand at 2305 ft. Tower Pet. Corp. 1, 6-14n-103w, cem 8¼-inch at 3482 ft. Vermillion Oil Co., sw 16-12-99, spdg. Sormir Pet. Co., 2, 13-12-100, fsh 1330 ft. Ohio Oil Co., nw nw 22-16n-104w, rigging up.

UINTA—Jo Minton et al, 8-18n-116w, changing to heavier equipment, td 600 ft. Uinta O. & D. Co., Kastor 1, 20-15n-120w, sd cem 2004 ft. A. J. Whiteman et al, 18-16-117, dr 900 ft. A. R. Johnson, Morrison 2, 2-14n-118w, dr 700 ft. H. A. Rispin, 22-15n-118w, spdg. C. L. McWherter et al 1, nw 11-14n-118w, rigging for deep test. McCaslin et al, 1, 15-14n-118w, moving in. Deseret Oil & Refining Co., 1, se 6-14n-119, sdtr 6¼-inch 1700 ft. Playton et al, 26-14n-119w, moving in. Frank Wilcox 2, 3-14n-118w, moving in.

WESTON—Wyoming Drilling Syndicate 1, 15-44n-64w, set 10-inch 1800 ft, and dr below 2000 ft, carrying 8¼-inch.

### UTAH

GRAND—Utah Oil Refining, Moab Consolidated, Utah Southern, Salt Valley 1, 13-23-21, fsh 375 ft. Utah Southern and Moab Consolidated, Shaffer 1, 36-26-20, run cas to 1665 ft. Navajo Pet. Co., 2-20-21, wtg compl water line, td 1250 ft. Western States Dev. Co., 1, sw 27-21s-19e, dr 1467 ft. Big 6 Oil Co., Randall 1, 10-22-19, dr 505 ft.

NAVAJO RESERVATION—Continental Oil Co., Boundary Butte 1, 31-32-21, dr 4700 ft.

SAN JUAN—Boulder Knoll O. & G. Co., 1, 17-34-25, wtg for 6¼-inch at 2640 ft.

UINTA—Western Venture Oil Co., Krumvieda 1, 6-5-21, cem cas to 923 ft.

UTAH—Diamond Oil Co., 3, ne 28-8s-4e, dr 1575 ft.

WAYNE—Phillips Pet. Corp., 16-27-16, dr 2350 ft.

### NEW MEXICO

CHAVES—McQuigg Bros., Neis 1, 7-5s-29e, dr 3300 ft. Berrendo O. & G. Co., Roswell 1, 5-10-27, sd 725 ft. Snowden & McSweeney, Merchant 1, nw 27-15s-23e, dr 865 ft. R. E. Neal et al, Russell 1, 21-14s-25e, sd 1055 ft. Warman et al 1, sw 23-13s-24e, ready to spud.

DE BACA—Matado Oil Co., State 1, sw 6-4n-20e, fsh 500 ft. Navajo Oil Co., McAdoo 1, ne 16-1s-27e, dr 4150 ft.

LEA—Midwest Refining Co., State 1, 9-19s-39e, ur to dr deeper, td 4090 ft. Midwest Refining Co., Farnsworth 19, 12-26-37w, dr 815 ft. Marland Oil Co., Eaves 1, 19-26-37, fsh at 3000 ft. Marland Oil So., Sholes 1, 19-25s-37e, dr 2900 ft. Marland Oil Co., No. 1 Lynn, 26-23-36, rig up. Marland Oil Co., No. 1 King, ne 26-25s-32e, moving in. Marland Oil Co., Brooks 1, sw 8-20s-33e, lcn. Empire Gas & Fuel, State 1, 8-21s-35e, dr 3520 ft. Gypsy Oil Co., State 1, 34-21s-36e, set 8¼-inch at 3072 ft. Exploration Co., Record 1, ne 26-19s-35e, dr 4480 ft. Marland Oil Co., Danciger 1, 7-23-36e, rigged. Morton et al, ne 32-11s-38, wtg for tools. Texas Production Co., Sheppard 1, ne 6-26s-37e, rig up. Texas Production Co., Eagle 1, sw 9-26s-36e, rigged. Texas Production Co., Moberly 1, se 17-26s-37e, lcn. Bordages et al Hughes 1, 27-10-18e, fsh lost bit at 3545 ft. Curtis Drilling Co., Nixon 1, 22-18s-34e, sd at 475 ft. C. E. Reynolds Drilling Co., Anderson 1, 29-13s-37e, dr 1492 ft.

SAN JUAN—Continental Oil Co., Munoz 17, fsh 5578 ft. T. C. N. Oil Co., Lanier 1, 9-29-11, sd 547 ft. Huntington Park Oil Co., 29-30-9, sd 4585 ft. Huerfano Oil Co., Wiltbank 1, 25-29-11, sd 800 ft. San Juan Pet. Co., 1, 9-29-13w, sd 2950 ft. Kirtland Drilling Co., Hunt 1, 10-29-15, dr 350 ft. Kutz Canon O. & G. Co., Day 1, 29-28-11, td 270 ft. Midwest Refining Co., State 1, se 36-22n-14w, prep to spud. Blackrock Oil Co. 1, sw 11-25n-13w, dr 225 ft.

SAN MIGUEL—E. Adams et al, Deason 1, 14-15n-16e, sd 1235 ft.

TORRANCE—Duran Dome Oil Co., 1, 31-2-14, sd 1600 ft. Bluhall O. & G. Co., 20-6n-10e, ur at 1205 ft. Hall et al, Pinos Wells 1, sw 25-3n-13e, dr 400 ft.

VALENCIA —Acme Oil Co., N. M.-Ariz. Land Co., 26-6-3, dr 2710 ft.

### COLORADO

BENT—Marland Oil Co., Pipe Springs 1, se 27-29s-49w, prep to spud.

JACKSON—Producers & Refiners, Hendershot 1, ne 2-26n-81w, rig burned down, td 320 ft.

JEFFERSON—Wood et al, 1, 30-3s-69, dr 2260 ft.

LAS ANIMAS — Reiter-Fosterand Phillips Pet. 23-29n-56, dr 2540 ft. Alavier Pet. Co., Branson 1, ne 3-35s-58e, ready to spud.

LA PLATA—Childers Drilling & Prod. Co., Dry Mesa 1, 29-32n-14w, dr 200 ft. Royal P. & Ref. Co., Red Mesa 1, 27-33n-12w, rig.

MESA—Eureka Oil Co., No. 2 Holly, 24-1s-1e, sd 925 ft.

MORGAN—Badger Creek O. & G. Co., Kent 1, sw 2-2n-57w, dr 265 ft.

MONTROSE—Uncompahgre O. & G. Co., nw 27-50n-10, rig up.

MOFFAT—Reiter-Foster, State 1, 16-12-100, sd 2240 ft. Yarg Producing & Ref. Co., 205, 26-4n-92w, dr 3972 ft. Alliance Oil Co., Milliken 1, 14-4n192w, dr 3268 ft. McCormick et al, Sales 1, se 28-4n-92w, bldg rig.

RIO BLANCO—Texas Production Co., Freeman 1, 27-3-94, cas run to 3819 ft, will drill ahead. Argo Oil Co., se 9-2s-96w, sd ready to spud. Union of California, U. S. Consolidated 1, 10-2n-88w, bldg road.

ROUTT—Great Western Oil Co., State 1, 17-60n-56w, sd 2504 ft.

YUMA—Etnyre Synd., sw 7-2s-43, sd 900 ft.


Shaffer Oil and Refining Company

Producers ·:· Refiners ·:· Marketers

DEEP-ROCK

This Trade Mark is your protection in buying highest quality petroleum products

*Producing, Land and Pipe Line Depts.,*
424 South Cheyenne Avenue
TULSA, OKLA.

*Refinery at Cushing, Okla.*

*Sales Office: 300 W. Adams, Chicago, Ill.*

# MORE PLAIN FACTS *About* SUCKER RODS

¶ In view of the fact that a single case of mishandling or carelessness will ruin even the very best sucker rods made, we recommend the following advice to all users of Jones H. M. Sucker Rods.

¶ Remember that new rods should be placed in well one at a time so that proper stabbing of joints can be obtained and to insure every joint being made up properly. This eliminates cross threading of A. P. I. joints.

¶ Consider the fact that A. P. I., Sucker Rod Joints are practically tool joints. Tool joints are cleaned before they are run. Do the same to your A. P. I. sucker rod joints. Dirt prevents shouldering. Keep them clean.

¶ Do not fail to test all the joints for tightness of shoulder before placing them in the well again when pulling rods two or three at a time. Some of the joints may be loose and loose joints mean broken pins.

¶ In pulling rods, keep slack out of rod line to prevent elevator from sliding down on rod. A kinked rod usually results if this is not done. A kinked rod will be a body break sooner or later.

¶ Store rods where they are protected from the weather. Sucker rods made to A. P. I. specifications are extremely good joints.

*Then Note the Difference in Your Rod Trouble*

THE S. M. JONES COMPANY

TOLEDO, OHIO *Tulsa Office:* 422 McBIRNEY BLDG.

JONE SUCKE RODS

## ARKANSAS

### Completions

UNION COUNTY—

| | | |
|---|---|---|
| C. E. Murdock's Gregory 6, 10-17-14 | * | 3324 |
| Ohio Oil Co.'s Rowland 2, 15-17-14 | * | 3331 |
| Pure Oil Co.'s Taylor 2, 10-17-14.. | * | 3289 |
| Sam Richardson's Goodwin 1 16-16-14 | * | 3362 |

ASHLEY COUNTY—Atlantic Oil Co.'s Producing Co.'s Moffatt 1, 28-16-8, dk. S. E. Harris Tr.'s Holmes 1, 9-16-7, (formerly South Arkansas Nat. Gas & Fuel Corp.) rig.

BRADLEY COUNTY—Joe Hurley's Southern Lbr. Co. 1, 26-15-10, sd 21 ft. Ohio Oil Co.'s Southern Lbr. Co. 1, 15-16-10, dk.

CLARK COUNTY—W. M. Henry's Tr.'s Clark 1, 34-9-21, sd 1200 ft. McKenzie Oil Co.'s Eaken 1, 9-11-19, dr 1750 ft.

CHICOT COUNTY—Joe Crawford Cashion 1, 14-18-2, sd 1550 ft. S. D. Hunter's Lytle 1, 9-19-3, dr 2350 ft. Mid-American O. & G. Co.'s Brownwell 1, 12-17-2, dk.

COLUMBIA COUNTY — Geo. Dawley's Gantt 1, 12-17-22, sd 2520 ft. Mitchell et al's Franks 1, 25-19-22, sd 150 ft. Van Hagen Synd.'s Pickler 1, 19-19-22, sd 850 ft; Mason 1, 31-19-12, rig.

DALLAS COUNTY—Dedman et al's Hillman 1, 20-10-13, sd 1100 ft.

GRANT COUNTY—Jones & Watkins' Meek 1, 5-4-11, sd 1400 ft.

LINCOLN COUNTY—Pine Prairie O. & G. Co.'s Carter 1, 33-10-6, sd 2176 ft.

LITTLE RIVER COUNTY—Grote et al's Allen 1, 31-12-31, sd 2941 ft.

NEVADA COUNTY—Autrey Oil Co.'s Martin B-2, 6-14-20, lcn. Humble O. & R. Co.'s Mixon 1, 6-14-20, wosr 1151 ft; Groves C-3, 1-14-21, set 10-inch at 40 ft; Groves C-4, 1-14-21, dk; Groves C-6, 1-14-21, dk; Groves B-6, 1-14-21, dk. O'Brien et al's Moss A-17, 1-14-21, set 6-inch at 1151 ft.

OUACHITA COUNTY—E. C. Laughlin's Morgan 1, 22-15-19, set 6-inch at 2024 ft. Timberlake et al's Carnes 1, 27-13-17, sd 2051 ft.

UNION COUNTY — Amerada Pet. Corp.'s Ezell 1, 3-17-14, tested dry at 3295 ft. Brown et al's Miles 1, 4-17-14, dr 1855 ft. Barton et al's Doss 1, 16-17-14, coring 3318 ft. J. E. Crosbie's Brown 1, 8-17-14, tested sw at 2922 ft. Clark Tr.'s Dumas 1, 8-17-16, lcn. O. W. Estes' Rowland 2, 14-17-14, dr 3260 ft; Rowland 3, 14-17-14, set 6⅝-inch at 2760 ft. Garrett & Modisette's Pyron 1, 21-17-14, rig. Gilliland Oil Co.'s Hicks 1, 16-17-14, dk. Grimes Bros.' Hill 2, 7-18-14, rig. H. L. Hunt's Dodson 1, 3-19-12, dr 2420 ft; Dykes 1, 21-18-12, sd 3203 ft; Gregory 5, 15-17-14, wosr 3219 ft; Gregory 8, 15-17-14, set 10-inch 155 ft; Gregory 9, 15-17-14, tested dry at 3221 ft; Gregory 12, 10-17-14, cemented back to 2971 ft. Hamilton et al's Doss 1, 16-17-14, rig. Hollyfield et al's McCain 1, 4-17-14, dr 2692 ft; Hicks 1, 16-17-14, set 12½-inch at 129 ft; Kelly 1, 9-17-14, fsh 638 ft. Imperial O. & G. Co.'s Central Bank 1, 1-17-15, dr 2543 ft; Goodwin 1, 26-17-16, sd 3368 ft; McClannahan 7, 6-16-15, wosr 1991 ft. E. C. Johnson Tr.'s Gregory 1, 10-17-14, arr to test 3259 ft; Gregory 2, 10-17-14, set 6⅝-inch at 3230 ft; Gregory 3, 10-17-14, dk. E. M. Jones' Crain 4, 2-17-14, sd 3069 ft; Perdue 1, 34-16-14, arr to abn 3302 ft; Stegall 1, 10-18-14, dr 1979 ft; Wells 1, 21-17-14, coring 3100 ft. W. R. Keever's Ezell A-6, 12-17-15, sd 2136 ft. Lion O. & R. Co.'s Murphy C-7, 8-16-15, wosr 2468 ft; Rowland 2, 15-17-14, tested sw at 3297 ft; Rowland 4, 15-17-14, pb to 2900 ft; Union Saw Mill 1, 6-17-13, dr 110 ft; Kelly 1, 9-17-14, coring 3266 ft; Sinclair 3, 16-17-14, dk; Sinclair 4, 16-17-4, set 0-inch at 180 ft. Lyall et al's Stegall 1, 11-17-13, dr 3122 ft. Lovette et al's Goodwin 1, 3-16-16, rig. Magnolia Pet. Co.'s Carroll 2, 1-17-14, sd 1500 ft; Carroll 4, 1-17-14, lcn; Carroll 5, 1-17-14, lcn; Felsenthal 1, 11-17-14, tested sw at 3131 ft; Dumas 1, 11-17-4, tested sw at 2871 ft; Gregory 1, 15-17-14, dr 2185 ft. Mellor Tr.'s Peters 1, 28-17-14, lcn. Mellor et al's Van Hook 1, 7-18-14, wosr 2206 ft; Bullock 1, 7-18-14, wosr 2169 ft. Morefield & Tate's Smith 1, 6-18-13, rig. Mountz et al's Pratt 6, 8-18-16, wosr 2200 ft. S. E. Murdock's Dumas 2, 11-17-14, tested sw at 3223 ft; Dumas 3, 11-17-14, dk; J. M. Gregory 3, 10-17-14, r 3195 ft; J. M. Gregory 5, 10-17-14, coring 3219 ft. J. O. Moore's Pagan 1, 18-18-11, rebldg dk 3134 ft. R. J. McMurray's Hale 1, 23-19-15, dr 1200 ft. Magna Prod. Co.'s Dumas 6, 11-17-14, dr 2926 ft; Rowland B-2, 14-17-14, dr 2676 ft; Rowland C-1, 14-17-14, coring 3170 ft; Townsend 3, 10-17-14, lcn; Townsend 7, 10-17-14, lcn. Joe Marr's Sloan 1, 14-17-15, arr to test 3268 ft. Marr & Hooser's Horton 1, 12-18-15, lcn. Pat Marr's Hicks 1, 16-17-14, sd 3068 ft. Mazda Oil Corp.'s Boyd 1, 9-17-15, temp abn 2692 ft; Diffie 1, 16-17-14, arr to retest 2948 ft. Chas F. Noble's Murphy Estate 1, 36-16-16, dk. Oil Well Corp.'s Ezell 1, 3-17-14, dr 845 ft; Ezell 2, 3-17-14, dk; Pardue A-1, 10-17-14, arr to set 6⅝-inch at 3209 ft; Pardue A-2, 10-17-14, coring 3222 ft; Pardue B-1, 10-17-14, dr 1358 ft; Pardue B-2, 10-17-14, sd 1971 ft; Pardue C-1, 9-17-14, dr 2340 ft; Pardue C-2, 9-17-14, set 10-inch at 152 ft; Slade 1, 3-17-14, dr 2026 ft; Slade 2, 3-17-14, lcn; Snyder 1, 6-17-14, dr 2580 ft. Ohio Oil Co.'s Crain 4, 1-17-14, dk; J. M. Gregory 1, 10-17-14, dr 2248 ft; Carroll Hrs 1, 6-17-13, dr 1942 ft; Carroll Hrs 2, 6-17-13, set 10-inch at 208 ft; Warren 1, 10-17-14, dr 2716 ft; Lochner 3, 11-17-14, arr to test 3219 ft; Rowland 3, 15-17-14, lcn; Taylor 1, 10-17-14, dr 2712 ft; Townsend 1, 10-17-14, tested No. 30 at 3215 ft; Townsend 2, 10-17-14, arr to test 3297 ft. Patterson & Neighbor's Barnett 1, 33-17-14, dr 1905 ft. Pure Oil Co.'s Gaddy 1, 13-17-14, lcn; E. F. Gregory 7, 10-17-14, wosr 3196 ft; E. F. Gregory 8, 11-17-14, lcn; E. F. Gregory 9, 11-17-14, tested sw at 2698 ft; Gregory B-1, 10-17-14, dr 3674 ft; J. M. Gregory 4, 11-17-14, setting 8¼-inch at 3229 ft; J. M. Gregory 5, 11-17-14, lcn; Gregory Estate 4, 15-17-14, sd 3221 ft; Gregory Estate 5, 15-17-14, dr plug 2767 ft; Taylor 3, 10-17-14, dr 2534 ft. Rhodes Tr.'s Union Saw Mill 1, 14-19-11, sd 3210 ft. Rice et al's Heineman & Meyers 1, 23-18-16, sd 2240 ft; Heineman & Meyers A-1, 23-18-16, rig. Reliance Drilling Co.'s Kelly 1, 9-17-14, dk. Rovenger Oil Corp.'s Perdue 2, 10-17-14, set 6⅝-inch 3220 ft; Perdue 3, 10-17-14, set 6⅝-inch 3250 ft; Perdue 4, 10-17-14, arr to set casing 3212 ft. Roxana Pet. Corp.'s Doss 1,

McMAN OIL & GAS COMPANY

PRODUCERS of CRUDE OIL

AND

MANUFACTURERS of NATURAL GASOLINE

General Offices:

P. O. BOX 712 TULSA, OKLAHOMA

Say you saw it in The OIL WEEKLY

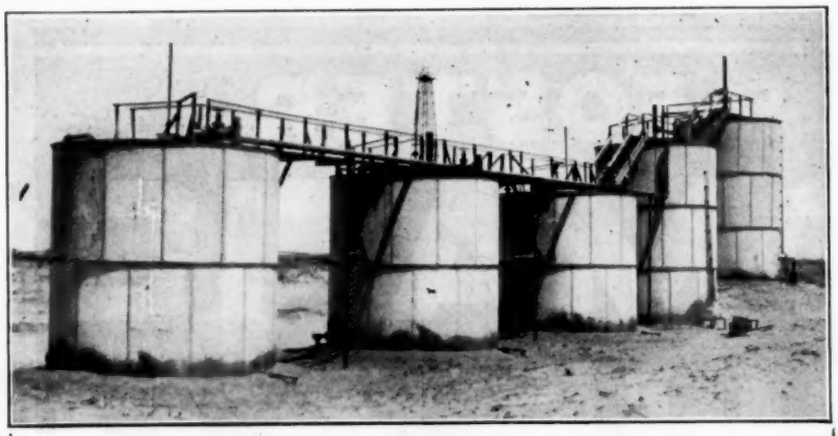
# HILL & FOSTER AUTOMATIC CATHEAD

*Eliminates all hazards common to ordinary cathead operation*

*Descriptive Bulletin*
*15N*
*On Request*

THE
# NATIONAL SUPPLY
COMPANIES

*Say you saw it in The OIL WEEKLY*



*2—750 Bbl., 2—1000 Bbl. and 1—1500 Bbl. Maloneys in use in the Pierce Junction Field, near Houston. Erected by Peer Bolted Steel Tank Co., Distributors, Houston District.*

# Extra STURDY Bolted Steel Tanks

**MALONEY Bolted Steel Tanks are distinguished by an unusual sturdiness and meet the most exacting requirements for strength. Among the features of design and construction which render these tanks extra sturdy, are: Our patented "crimp" which gives a corrugated and therefore a more rigid seam—our method of reinforcing seams with steel channels—special bolts with a tensile strength of 90,000 pounds—heavy steel angles supporting decks, with cantilever trusses under the decks of larger sizes—all steel sheets of amply heavy gauge.**

**MALONEYS are made of exceptionally durable Keystone Copper Steel. The crimped, accurately fitting seams are packed with our special gasketing and dressed vapor-tight with our Gaso cement. Large cleaning out plates are set flush with bottoms. Maloney special pearl gray paint is used. Valves and thief hatches are the best to be had.**

*"Alone in Quality"*

**MALONEY TANK MFG. CO.**

TULSA, OKLA., U. S. A.

*Distributors at All Principal Petroleum Points*

Sizes: 12 to 10,000 Barrels

Packed in Steel-Bound Crates for Export

*Howell Aluminum "3-in-1" Vacuum Pressure Valve and Thief-Hatch —The BEST and LATEST Deck Equipment—POSITIVE Safety*

KEYSTONE COPPER STEEL — MALONEY PATENTED BOLTED COPPER-STEEL TANKS — KEYSTONE COPPER STEEL

MALONEY

ALONE


16-17-14, rig. Dr. Rushing et al's Gregory 3, 11-17-14, fsh 3222 ft. Root Ref Co.'s Davidson 1, 21-17-14, lcn; Ed Doss 1, 16-17-14, dk; M. Doss 1, 16-17-14, tested No. 3 at 2781 ft; M. Doss 2, 16-17-14, dk; M. Doss 3, 16-17-14, rig; E. F. Gregory 1, 10-17-14, bailing 3270 ft; E. F. Gregory 2, 10-17-14, dr 2325 ft; J. M. Gregory 1, 15-17-14, tested dry at 3192 ft; Mullens 1, 21-17-14, dk. Sun Oil Co.'s Schmidt 1, 16-17-14, arr to test 2786 ft; Schmidt 2, 16-17-14, tested No. 10 at 2780 ft; Schmidt 3, 16-17-14, arr to test 2797 ft. Simroll et al's Findley 1, 12-17-14, coring 3237 ft. Simmons et al's Green 1, 3-16-16, tested sw at 1998 ft. Skelly Oil Co.'s Perdue 2, 10-17-14, dr 2775 ft; Perdue 3, 10-17-14, dr 2748 ft; Perdue 4, 10-17-14, tested dry at 3250 ft; Perdue 5, 10-17-14, dr 2048 ft; Miles 1, 4-17-14, dr 2586 ft. Timberlake et al's Dumas 1, 11-17-14, set 4½-inch at 3202 ft. Tharpe Drilling Co.'s Hicks 1, 16-17-14, dr 2360 ft. The Texas Co.'s Moody 1, 16-17-14, dk; Moody 2, 16-17-14, rig. Walker et al's Wilson 1, 25-17-14, lcn. F. B. Wood Tr.'s Spahr 3, 34-15-16, dr 2285 ft.

## LOUISIANA

CADDO PARISH—
Empire Gas & Fuel Corp.'s Nicholson 1, 33-17-14 ..... * 4600

CATAHOULA PARISH—
S. D. Hunter's Tensas 3, 4-9-8e.... * 2109

RICHLAND PARISH—
Gulf Ref. Co.'s Millsaps 1, 8-17-6e * 4166

BIENVILLE PARISH—S. P. Borden's L. & A. 2, 1-15-8, tested sw at 1776 ft and dr 1820 ft.

BOSSIER PARISH — Arkansas Nat. Gas Co.'s Bollinger 2, 38-23-11, setting 6⅝-inch at 3032 ft; Van Hoose A-5, 31-16-11, lcn. Doern et al's Bollinger 1, 9-22-11, sd 4317 ft. H. S. Goodwin Tr.'s Curtis 2, 36-17-12, sd 3257 ft; McDade 1, 36-17-13, arr to test 1564 ft. Wm. Gross et al's Stewart 1, 15-18-12, dr 3110 ft. Hamiter et al's Hamiter 1, 10-23-13, sd 1875 ft. G. E. Jones Meyer 1, 31-16-11, dk. Louisiana Pet. Co.'s Farrington 1, 25-23-12, tested sw and oil show 3078 ft, arr to deepen. Palmer Corp.'s McDade 1, 13-17-12, dr 545 ft. R. O. Roy's Werner 1, 7-17-11, lcn; Caplis 1, 25-16-12, sd 800 ft. Sligo Synd.'s Carmanche 1, 15-17-12, dr 1200 ft. Walker et ad's Antrim 1, 28-22-13, sd 2900 ft.

CADDO PARISH—W. T. Bell's Posey 4, 33-22-16, dr 2285 ft. Dixie Oil Co.'s Robertshaw 81, 13-21-15, sd 4148 ft; Robertshaw 92, 13-21-15, coring 4767 ft; Dillon 53, 13-21-15, wosr 3757 ft; Dillon 93, 14-21-15, set 6¼-inch at 1507 ft; Huckaby 4, 11-21-15, sd 4037 ft. Gulf Ref. Co.'s Tyson 13, 14-21-15, arr to test 4010 ft. Magnolia Pet. Co.'s Bell 2, 6-17-16, sd 3225 ft; Dillon 21, 23-21-15, lcn; Furrh 3, 28-18-16, dr 80 ft; Robertshaw 22, 23-21-15, coring 4336 ft; Bryson 2, 8-17-16, failed to get test at 2336 ft, dr 2374 ft; Raines 26, 22-21-15, swabbing 3732 ft; Levee Board 3, 7-20-15, dr 231 ft. Simplex Oil Co.'s Hunsicker 6, 15-20-15, tested dry at 2238 ft. Shreveport Oil Corp.'s Muslow 3, 32-21-15, dr 2980 ft. The Texas C. M. L. 47, 23-21-15, sd 3931 ft. Warren et al's Berry 1, 26-15-15, dr 50 ft.

CATAHOULA PARISH—Lochnager O. & G. Co.'s Taliaferro 1, 26-9-6e, sd 900 ft. The Texas Co.'s Tensas Delta Lbr. Co. B-1, 4-10-6e, sd 195 ft.

DE SOTO PARISH—Benson O. & G. Co.'s Jackson 1, 3-10-13, dk. Carlton Drlg. Co.'s Steve n s1,12-11-16, sd 350 ft. R. O. Roy's Lee 1, 33-14-13, dk. Rudeseale et al's Nabors 1, 6-12-11, dk. Williams et al's Fortson 1, 4-12-11, wosr 2430 ft.

EAST CARROLL PARISH—Palmer Corp.'s Hamley 1, 27-20-11e, arr to set 6⅝-inch at 2469 ft. Woodley Pet. Co.'s Garden Home 1, 4-19-12e, fsh drill stem 2419 ft.

FRANKLIN PARISH—Louisiana Pet. Co.'s Dailey 1, 6-11-7e, sd 2200 ft. Pittsburg Exploration Co.'s Moore 3, 12-11-6e, sd 2501 ft.

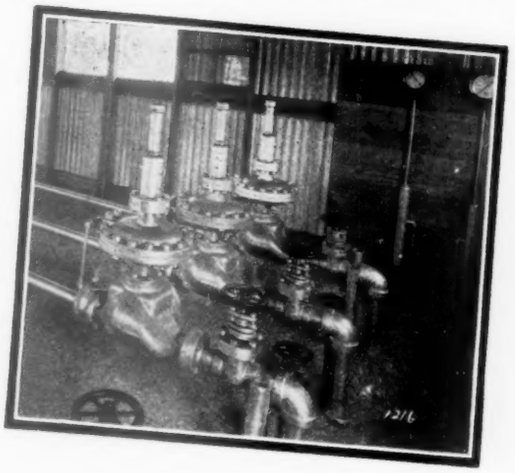
GRANT PARISH—W. D. Ball et al's Calhoun 3, 9-7-4w, sd 2200 ft. Swope et al's Fee 3, 8-9-1e, sd 1607 ft; Fee 5, 8-9-1e, wosr 1602 ft; Fee 6, 17-9-1e, dk.

LA SALLE PARISH—H. T. Taylor's Urania 7, 19-10-2e, sd 1574 ft. Tunica Pet. Co.'s L. & A. 43, 17-7-2e, wosr 803 ft; L. & A. 44, 16-7-2e, set 10-inch at 40 ft; L. & A. 45, 20-7-2e, rig.

MADISON PARISH — Mid-American Pet. Co.'s Yerger 1, 51-16-14e, sdtr 1690 ft.

MOREHOUSE PARISH—Consolidated Car-

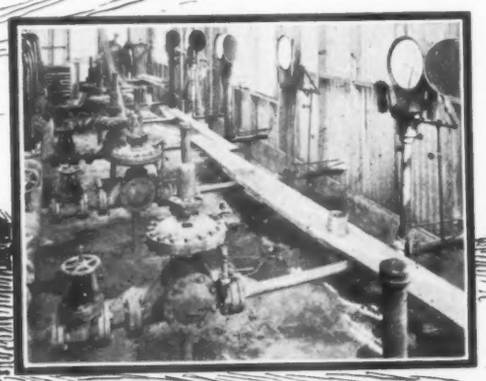
# 5 Batteries of Emco Flow Controllers

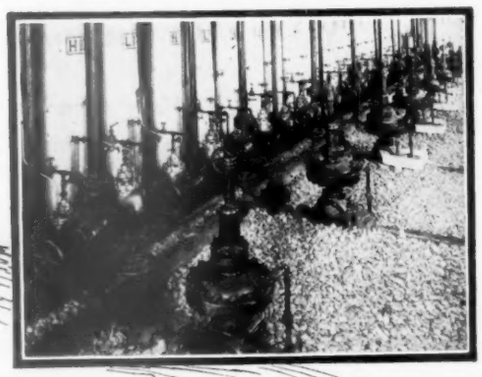


EMCO Regulation developed during 30 years of close contact with the Natural Gas Industry was the logical resource of the Oil Industry with the development of the Air Lift Process of Oil Production.

EMCO accuracy, ruggedness and design principles were from the beginning appreciated by the oil operators as witnessed by the large number of EMCO Flow Controller Installations found in the oil fields of America and other producing countries.

We are illustrating here several very successful installations of this type of equipment.





**PITTSBURGH EQUITABLE METER COMPANY**

**MAIN OFFICE AND WORKS PITTSBURGH, PA.**

**NEW YORK CHICAGO COLUMBIA, S.C. LOS ANGELES DALLAS TULSA SEATTLE KANSAS CITY SALT LAKE CITY**

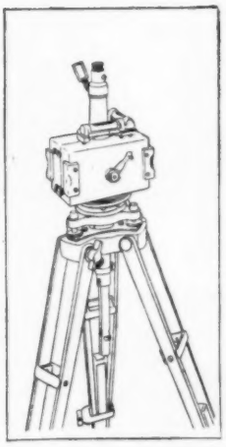
*Say you saw it in The OIL WEEKLY*

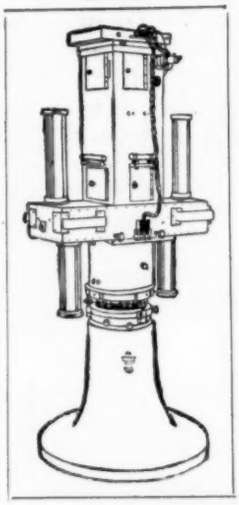
# Eliminate Guesswork

*use*

# Askania Geophysical Instruments

More than ever before the petroleum geologist depends on quick and reliable information about the sub-surface conditions, especially in unexplored areas with little or no surface indications. It is the merit of our torsion balances and magnetometers of having greatly assisted geologists of many leading American operating companies in their exploration work. They have proved through the test of time the accuracy of their analysis.





## For economical exploration use our geophysical instruments

We are making and selling for geophysical work: Torsion Balances, large and small model with automatic recording and visual reading; magnetometers; earth inductors.

We train your personnel without charge.

*Write for bulletins.*

**ASKANIA WERKE A. G.**

*American Office*

1024 Marine Bank Bldg.

Houston, Texas.

## Consolidated Oil Company of Texas

*President*

*W. T. KNIGHT*

**Wichita Falls, Texas**


bon Co.'s Fee 3, 9-20-4e, dr 1800 ft. Elbert Pet. Co.'s Morehouse Plbg. Co. 1, 40-19-7e, arr to deepen 2732 ft. Gulf Ref. Co.'s Higginbotham 1, 42-20-7e, dr 3072 ft; School Board 1, 16-18-6e, rig; Weymond A-1, 7-18-6e, dr 2315 ft. J. S. Harkness' Bowles 4, 18-20-5e, rig. Natural Gas Prod. Co.'s Taylor 1, 12-20-4e, set 8-inch at 865 ft. Shaffer O. & R. Co.'s Louisville Cooperage Co. 1, 11-22-8e, lcn. Southern Carbon Co.'s Tensas Delta 4, 22-21-4e, r 918 ft; Tensas Delta 5, 9-20-4e, lcn. The Texas Co.'s Myers 1, 15-22-7e, plugged back to 2901 ft; Huff 1, 36-23-7e, dr 2699 ft.

NATCHITOCHES PARISH — S. D. McDaniel's Clark-Morse 1, 23-5-6w, tested dry at 2407 ft. Robeline O. & G. Co.'s Cassody 1, 7-8-9, dk.

OUACHITA PARISH—Huber Carbon Co.'s Van Horn 1, 11-18-4e, set 8-inch at 874 ft. Imperial O. & G. Co.'s Stubbs 6, 14-19-3e, dk. Jordan Drlg. Co.'s Slagle 1, 48-18-4e, dk. G. E. Jordan's Wall 1, 12-18-3e, lcn. Natural Gas & Fuel Corp.'s McEnery 1, 21-19-4e, rig. Ouachita Nat. Gas Co.'s Potts 1, 33-19-3e, set 6-inch at 2162 ft. Phillips et al's School Fee 1, 16-16-4e, sd 1100 ft. Palmer Corp.'s Fee 4, 24-19-4e, dr 2140 ft. United Consumer's Slaughter 1, 2419-4e, rig. J. O. White Tr.'s Schmidt 1, 3-15-4e, sd 3017 ft.

RAPIDES PARISH — G. E. Gilbertson's Wettymark 3, 13-5-4w, dk. Glenmore Pet. Co.'s Fee 1, 1-2-2w, sd 3860 ft.

RICHLAND PARISH — Boeuff River Pet. Co.'s Sartor 1, 9-15-6e, set 6-inch at 2271 ft. J. M. Fuller's Boise 1, 33-16-6e, lcn. W. C. Feazel's Perdue 1, 6-15-6e, dr 1910 ft. S. D. Hunter's Pardue 1, 21-16-6e, dr 2300 ft; McCoy B-2, 17-16-6e, lcn; McCoy B-3, 21-16-6e, dk. Natural Gas & Fuel Corp.'s Sartor B-3, 19-16-6e, dk; Sartor B-4, 18-16-6e, lcn. Oliver & Master's Morrison 1, 2-15-5e, arr to deepen 2439 ft; Hatch Heirs 1, 11-15-5e, sd 2502 ft. Ruston Drlg. Co.'s Alexander 1, 4-15-5e, lcn; Etheredge 1, 28-17-6e, lcn. Southern Carbon Co.'s Sartor Jr B-1, 9-16-6e, set 6-inch at 2280 ft; Spann 2, 8-16-6e, dr 780 ft.

SABINE PARISH—Doern et al's Pickering 1, 17-4-11, dr 8280 ft. R. L. Gay's Marnsfield 1, 15-7-14, fsh 2875 ft. Plymouth Oil Co.'s Logan A-2, 23-10-13, dr 2793 ft. The Texas Co.'s Hamlin Estate 1, 28-10-13, dr 3446 ft. Zwolle O. & G. Co.'s Bowman Hicks 7, 14-7-14, sd 4008 ft; Sabine Lbr. Co. 1, 8-7-13, dk.

TENSAS PARISH—Enoch et al's Curry 1, 39-11-12e, fsh 2600 ft.

UNION PARISH—Carter & Wingfield's Security Trust 1, 6-23-1e, set 6⅝-inch at 2297 ft; Hudson 2, 6-23-1e, rig. Jones & Mullin's McLeod 1, 13-19-1e, lcn. Natural Gas Prod. Co.'s Hale 1, 5-21-4e, rig; N. A. Pace 1, 35-22-2e, dr 1540 ft. R. W. Rhodes' Upshaw 1, 14-23-2w, dk.

WEBSTER PARISH — Bethany O. & G. Co.'s O'Bier 1, 31-23-9, rig. Dixie Oil Co.'s Cox 1, 15-21-10, tested No. 5 at 4695 ft. Virgil Helm's Mitchell 1, 32-23-9, set 6-inch at 2652 ft. J. P. Hawkins Well Synd.'s Lewis 1, 15-13-9, sd 2822 ft. Humble O. & R. Co.'s Webb 2, 14-21-10, tested 3½¶ at 4800 ft; Bodcaw A-2, 14-21-10, dr 4354 ft; Davis 6, 14-21-10, tested 3½¶ at 4700 ft; Cox 4, 22-21-10, arr to test 4700 ft. Louisiana Oil Ref. Corp.'s Lindsay 4, 22-21-10, plugged back to 4730 ft; Crichton 5, 21-21-10, fsh drill stem 4819 ft. Magnolia Pet. Co.'s Munn 2, 29-23-9, lcn; W. K. Munn 1, 6-22-9, dr 1675 ft; Bailey-Munn 1, 30-23-9, sd 1800 ft; Turner 5, 21-21-10, dk; Coyle 2, 21-21-10, dr 4200 ft; Cook 1, 2-22-11, set 10¾-inch at 883 ft; Oakes-Roseberry 1, 29-23-9, dk; Wise 1, 30-23-9, arr to plug back 2676 ft; Aarnes Cox 3, 22-21-10, sett 8⅛-inch at 4401 ft; D. G. Cox ' 22-21-10, blg and heading well at 4720 ft; E. N. Cox 5, 15-21-10, dr 3979 ft; Merritt 5, 14-21-10, dr 3438 ft. Ohio Oil Co.'s Bodcaw 40, 15-21-10, plugged back to 4585 ft; Bodcaw 41, 15-21-10, testing 4702 ft; Haynes 1, 30-23-9, blg 2709 ft; Hodges 2, 23-21-10, dk; Holloway 5, 23-21-10, dr 3056 ft. Palmer Corp.'s Tillman 3, 28-21-10, rig. Bruce Richardson's Bailey 1, 29-23-9, fsh 2728 ft. Woodley Pet. Co.'s Duhe 2, 22-21-10, dk; Lewis 1, 15-21-10, plugged back to 4680 ft.

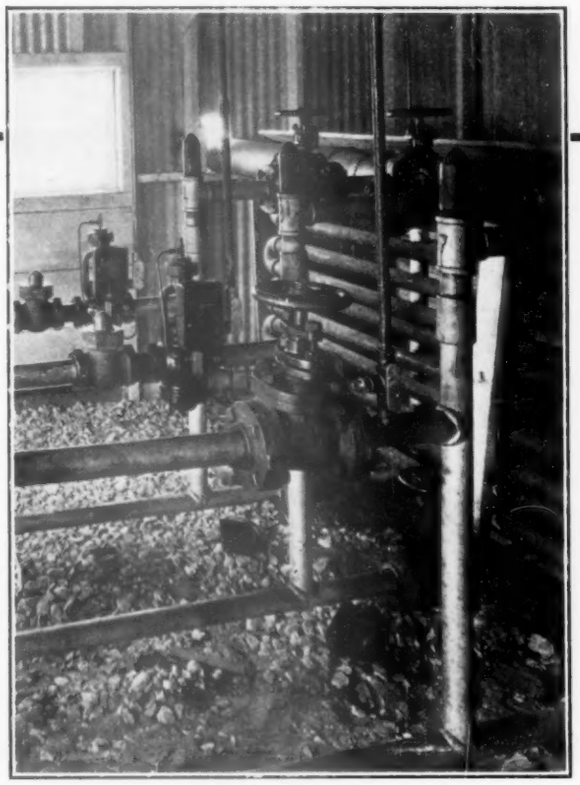
WINN PARISH—Calvin Oil Co.'s L. & A. 1, 9-11-4w, set 10-inch at 80 ft. Humble O. & R. Co.'s Tremont A-2, 21-10-1w, coring 700 ft.

# Cuts the Cost of Air and Gas Lift

# "JAT"

## Intermitting CONTROL SYSTEM

The JAT System puts the air on wells intermittently instead of constantly. On the branch line to each well is an Electro Magnetic Control Valve. These control valves are operated by the Gastributor or Intermitting Timer. Each well is allowed to fill under its own pressure, and then the oil is forced to the surface by the artificial pressure, automatically timed and applied to each well in turn. As many as 12 wells can be operated from one or more header systems.



*JAT Valves on Header in Meter House at Bowlegs*

The JAT Intermitting Control System cuts the cost of air and gas lift by effecting (1) lower compressor costs, (2) lower operating pressures, (3) a saving in the amount of air or gas used, (4) control from a central point, (5) a saving in piping and equipment.

A fast growing number of operators in California and the Mid-Continent are now using the JAT System. In every instance its use has cut lifting costs. In many cases production has been increased where the same volume of air or gas is used as on constant flow.

For full information inquire of Westcott & Greis, sole distributors east of the Rockies.

**WESTCOTT & GREIS, Inc.**

DALLAS TULSA LOS ANGELES

**WESTCOTT & GREIS**
MEASUREMENT AND CONTROL

## NORTHERN CALIFORNIA

### KERN COUNTY

ARVIN—Tecas Co.'s Pauley 1, 22-31-29, dr sand 3865 ft.

BAKERSFIELD—Pacific Eastern Production Co.'s KCL 3, 6-30-28, pb to 4417 ft from 4445 ft.

BELRIDGE—Zurich Oil Co.'s 1, 18-28-22, sd 2790 ft.

BUTTONWILLOW — Milham Exploration Co.'s Paige 1, 6-28-23, new lcn. Doheny-Stone Drilling Corp.'s Salisbury 1, 7-29-24, sd 4280 ft. Southern California Gas Co.'s 1, 4-28-23, washing out hole, td 4270 ft.

COMANCHE POINT—W. W. Stabler's Tejon 1, 23-32-29, 10-inch cas re-cmt 2520 ft, td 2632 ft.

DELANO—S. A. Delzel's 1, sw¼ 4-26-27, rig. Jasmine Oil Co.'s 1, 33-25-27, sr 2000 ft, td 2070 ft.

EDISON — Midway Northern Oil Co.'s Brown 1, 29-29-30, cem 6¼-inch cas 3465 ft, td 3755 ft, oil showings. General Pet. Corp.'s Kerwin 1, 5-30-29, pb to 3945 ft, pumping oil and water.

FAMOSA—George F. Getty's Mattie 1, 34-27-26, new lcn.

GOULD HILLS—Cymric Oil Co.'s Porter 3, 36-28-20, dr sand 765 ft. Exeter Oil Co.'s Parry 2, 1-29-20, rigging cable tools.

McFARLAND—General Pet. Corp.'s Stiles 1, 35-25-25, dr sand 5650 ft.

McKITTRICK—No active wildcats in this area.

SHALE HILLS—No active wildcats in this area.

SHAFTER—North American Royalties' 1, 8-28-25, dr shale 1570 ft.

SEMITROPIC—Richfield Oil Co., Kerwin 1, 21-26-22, dr shale 2320 ft.

TEHACHAPI—Crusaders Oil Co.'s 1, 21-10-10, fsh for tools 2370 ft.

WASCO—Main Oil Co.'s 1, 28-27-24, fsh for ¼-inch cas, td 5270 ft.

### SANTA BARBARA COUNTY

ELWOOD—Barnsdall's Bell 1, 15-4-28, oil and gas showings at 3200 ft.

SANTA BARBARA—Channell Oil & Dev. Co.'s 1, 29-4-27, pumping water, td 6025 ft. Tepusquet Oil Co.'s 1, 3-9-32, dr sand 2470 ft.

SUMMERLAND — Summerland Oil Co.'s Becker 1, sd 3045 ft.

### VENTURA COUNTY

BARDSDALE— Triple A Investment Co.'s Elkins 1, 28-4-19, changing to cable tools, td 2660 ft.

CAMARILLO—American Oil Co.'s 1, 33-2-20, dr 312 ft.

FILLMORE—Henry Demound's 1, 19-4-19, driving 4¾-inch cas to 300 ft.

OJAI—Continental's Fox 1M, 21-4-22, dr shale 1373 ft; Thompson 1, 22-4-22, dr brown shale 1248 ft. California-Ventura Oil Co.'s 4A, 33-4-23, dr shale 1185 ft.

OXNARD—Shell's Grub 1, 22-2-22, coring hard sand 4038 ft; Cohn 2, 22-2-22, dr clay 540 ft.

PIRU—Petroleum Securities Co.'s Diablo 1, 26-5-10, dr gray sand and shale 5382 ft. Wasibi Oil Co.'s 2, 34-3-19, dr shale 430 ft.

RINCON—Scott Pet. Co.'s 1, 35-4-25, pb to 4540 ft for test.

SANTA PAULA—San Pedro-Pt. Fermin Synd.'s 1, 13-4-21, dr blue shale 616 ft.

SATICOY—Standard's Citrus 4, 1-2-22, dr 1260 ft.

SIMI—Emma F. Exline's Seaton 1, 32-5-21, re-dr 1100 ft, td 1650 ft. Shell's Berylwood 1, 33-3-20, co 7150 ft, td 7240 ft.

SOUTH MOUNTAIN — Ring Pet. Corp.'s Converse 1, dr oil sand and shale 4350 ft.

VENTURA—Star Pet. Co.'s Canet 1A, 13-3-23, 8⅝-inch cas cmt 5947 ft.

### MISCELLANEOUS

ALAMEDA COUNTY—Calhoma Oil Co.'s 1, 9-3-3, dr sand 1235 ft.

COLOUSA COUNTY—Continental's 1, 31-18-4, fsh 4300 ft.

KINGS COUNTY—Milham Exploration Co.'s Elliott 1, 2-22-17, re-dr 6425 ft, td of old hole 7236 ft.

HUMBOLDT COUNTY—Northern Counties Oil Co.'s 2, 36-2-1, dr 2075 ft.

MERCED COUNTY—H. L. Kuhns 1, 9-12-9, dr shale 1300 ft.

MONTEREY COUNTY—Marland Oil Co.'s Naciemento 1, 32-24-11, dr shale 4280 ft.

SAN LUIS OBISPO COUNTY—Barnsberg Oil Co.'s 2, 25-32-14, co and sr 2775 ft. Holland and Kennebrew's Visnu 1, 22-32-22, will deepen from 1710 ft. North Star Oil Co.'s 1, 5-32-13, co 1350 ft. Panorama Oil Co.'s 1, 7-31-21, dr shale 2850 ft. Painted Hills Oil Co.'s 1, 34-30-21, sd for repairs. San Juis Synd.'s 1, 29-31-13, dr sand 2832 ft. Texas Pacific Coal Co.'s 1, 25-32-14, dr shale 2822 ft. Union's Russ 1, 34-32-15, re-dr 1565 ft, td 4075 ft; Chandler 1, 12-32-15, dr 135 ft. Waklin Pet. Co.'s 1, 27-27-11, 4¾-inch cas cmt 2410 ft, td 2610 ft.

SAN MATEO COUNTY—Shell's Butts 2, 21-6-5, coring 3125 ft; Cowell 2, 8-6-5, sr 2675 ft.

SONOMA COUNTY—Shell's Mossi 1, 8-5-7, flowing quarter million cu ft gas, td 2150 ft.

TULARE COUNTY—Ducor Drilling Co.'s 1, 29-23-27, re-dr 4120 ft. Kings-Tulare Synd.'s 1, 19-21-23, dr shale and sand 4638 ft.

## SOUTHERN CALIFORNIA

### Completion

WESTMINISTER—
McCollom and Taylor's Price 1, 13-5-11 . . . . . * 5883

BELLFLOWER—World Pet. Corp.'s Blythe 1, oil showings 2700 ft, dr 2725 ft.

CALABASAS—Easton and Smith's B. and brown shale 2595 ft.

COSTA MESA—Mesa Pet. Corp.'s B. and G. 1, dr lime and sand 3186 ft.

DAVIDSON CITY—California Well Drilling Co.'s Del Amo 1, 4¾-inch cas cmt 7350 ft, td 7555 ft.

DOWNEY—Associated's 1, near Vernon and Downey Roads, new lcn.

CONTINENTAL NATIONAL BANK

*—a thoughtfully managed bank*

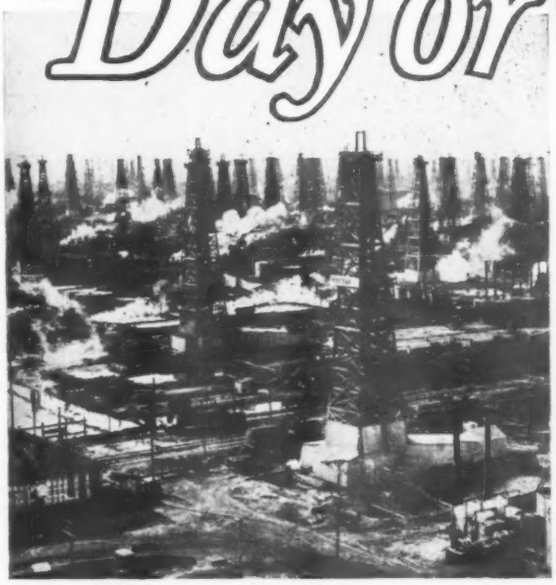
**Fort Worth Continental National Bank**

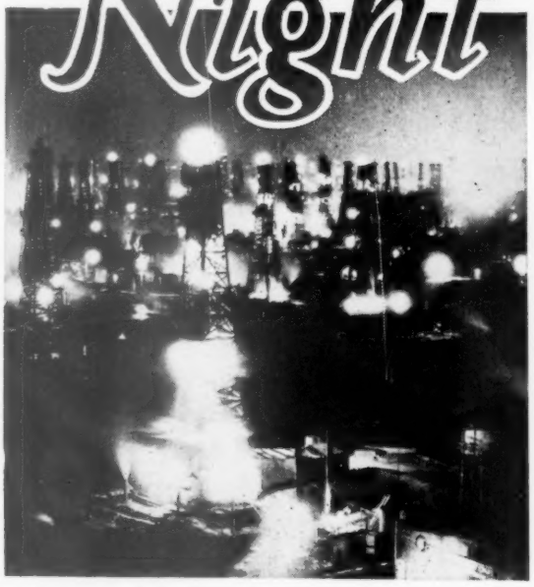
Strategically located for the transaction of business in all of the oil fields of the Southwest.

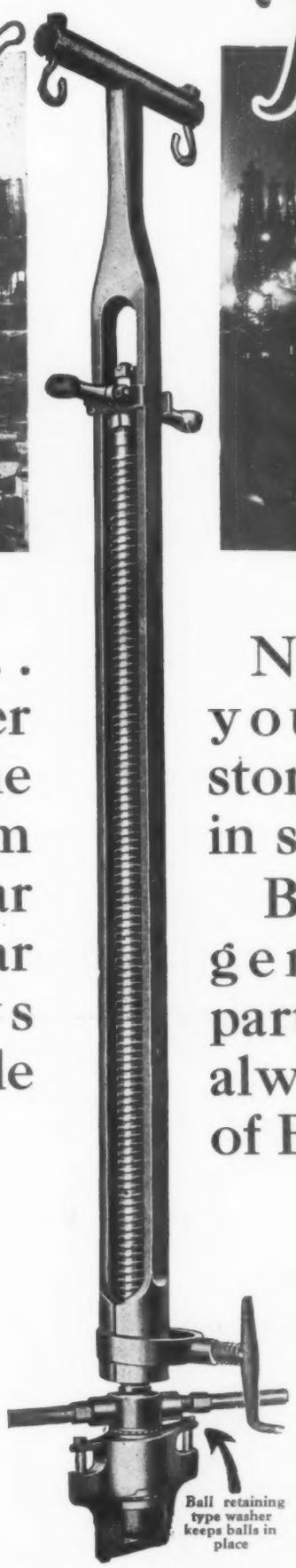
The bank that you hear frequently referred to as "The Oil Bank in Fort Worth."

***Soliciting the Accounts of Individuals, Firms and Corporations of Recognized Standing in the Oil Industry***

# Day or Night








Day or night . . . winter or summer ...days of sunshine and days of gloom ...year in and year out, Burns Tubular Temper Screws deliver dependable low cost service.

No matter where you are, supply stores carry them in stock.

Be sure you use genuine Burns parts then you will always be certain of Burns operation.

TEMPER BURNS SCREW

BURNS *Tool Company*
OKMULGEE · OKLAHOMA

FORT WORTH'S OLDEST NATIONAL BANK

Fort Worth as an Oil Operating Center

WITHIN the past eighteen months, ninety-five of the oil and allied industries have moved their headquarters or branch offices to Fort Worth, demonstrating forcibly the growing tendency to consider Fort Worth as the logical center of the oil industry of the Southwest.

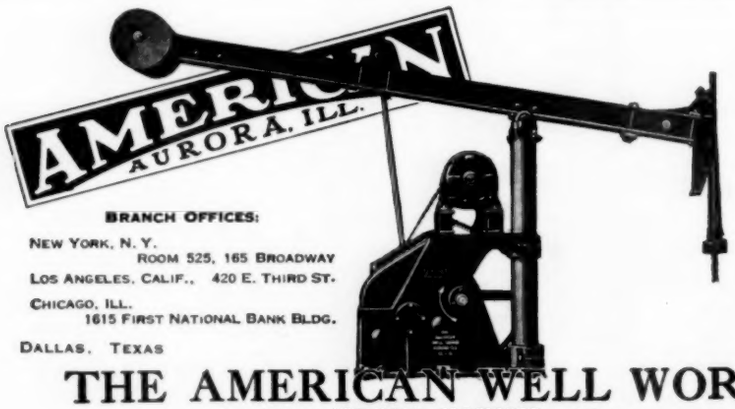
Adequately equipped to take care of this increase in business is the First of Fort Worth, which, to keep pace with the industrial expansion of Fort Worth and its trade territory, has increased its facilities and enlarged its quarters four times since first it began to serve Fort Worth and the great Southwest.

OFFICERS

W. E. CONNELL, *President*
B. S. WALKER, *Chairman of the Board*
T. B. YARBROUGH, *Vice President*
JOHN N. SPARKS, *Vice President*
R. C. MARTIN, *Cashier*
A. B. CULBERTSON, *Trust Officer*
W. H. WALLERICH, *Assistant Vice President*
F. W. POWELL, *Assistant Vice President*
R. M. BOWEN, *Assistant Vice President*
CHAMP CLARK, *Assistant Cashier*
F. A. ROGERS, *Assistant Cashier*
E. N. RATLIFF, *Auditor*

1ST NATIONAL BANK FT WORTH TEX

YOU know the value of time in the oil industry. By airplane, by rail, by motor, the transportation facilities to the major fields of the Southwest radiate from Fort Worth . . . the center of the oil industry's transportation.




BRANCH OFFICES:
NEW YORK, N. Y.
ROOM 525, 165 BROADWAY
LOS ANGELES, CALIF., 420 E. THIRD ST.
CHICAGO, ILL.
1615 FIRST NATIONAL BANK BLDG.
DALLAS, TEXAS

THE AMERICAN WELL WORKS
General Offices AURORA, ILLINOIS and Factory

EL SEGUNDO—Southern California Drilling Co.'s Matteson 1, re-dr to 3900 ft, sd.

FULLERTON—Shell's Stern 1, dr hard sand 5510 ft.

INGLEWOOD—Ring Pet. Corp.'s Simons 1, sdtr iron 400 ft, td 4350 ft.

LANCASTER—John B. Harding's La Loma 1, sd 975 ft.

MONTEREY PARK—Monterey Park Pet. Corp.'s 1, co 3825 ft, td 4530 ft.

PUENTE HILLS—Anchor Pet. Corp.'s Hudson 1, 8¼-inch cas cmt 3560 ft, td 3650 ft.

SAN FERNANDO—Shell's Mission 2, coring 3414 ft.

SAN JOSE HILLS—D. and B. Oil Co.'s Amar 1, plugged to 2600 ft, sd.

WESTMINISTER—McCollom and Taylor's Price 1, 13-5-11, sd 5883 ft.

**MISCELLANEOUS**

RIVERSIDE COUNTY—Spindletop Oil and Gas Synd.'s Salton 1, dr shale 3487 ft. Hall Pet. Co.'s 1, dr shale 800 ft.

SAN BERNARDINO COUNTY—Western Pacific Oil Co.'s 3, dr hard sand 3075 ft.

SAN DIEGO COUNTY—Davenport Oil & Gas Co.'s 1, dr cut cmt below 8¼-inch shutoff at 560 ft, td 575 ft. Torrey Pines Oil Co.'s 1, dr lime and shale 1550 ft. S. S. Turner's Baler 1, dr shale 1160 ft.

## West Texas Shop

Tulsa, Okla.—An oil field blacksmith and machine shop is maintained at Wink, Texas, by the Iverson Tool Company of Tulsa, so as to afford immediate service to operators in the Hendrick field in that area. Roscoe Belden is in charge of this latest branch of the company's oil field service points.

The Iverson Tool Company also maintains branches in the more important centers in Oklahoma and also at points other than Wink in West Texas.

## Gross Crude Oil Stock Changes for June

Pipe line and tank farm gross domestic crude oil stocks east of the Rocky Mountains decreased 1,389,000 barrels in the month of June, according to returns compiled by the American Petroleum Institute from reports made to it by representative companies. The net change shown by the reporting companies accounts for the increases and decreases in general crude oil stocks, including oil in transit, but not producers' stocks at the wells.

### Changes in Stocks at Refineries East of California for June

The following is the American Petroleum Institute's summary for the month of June of the increases and decreases in stocks at refineries covering approximately 88 per cent. of the operating capacity east of California.

| | Increase Barrels | Decrease Barrels |
|---|---|---|
| Domestic crude oil... | 95,000 | ..... |
| Gasoline . ..... | ..... | 1,014,000 |
| Foreign crude oil .... | ..... | 2,202,000 |
| Kerosene . ..... | 632,000 | ..... |
| Gas and fuel oils .... | 2,597,000 | ..... |
| Lubricating oil .... ..... | ..... | 144,000 |
| Miscellaneous . ..... | ..... | 437,000 |
| Total . .....3,324,000 | | 3,797,000 |
| Deduct . ..... | ..... | 3,324,000 |
| Net decrease ..... | ..... | 473,000 |

# When production drops—use ABERCROMBIE SERVICE

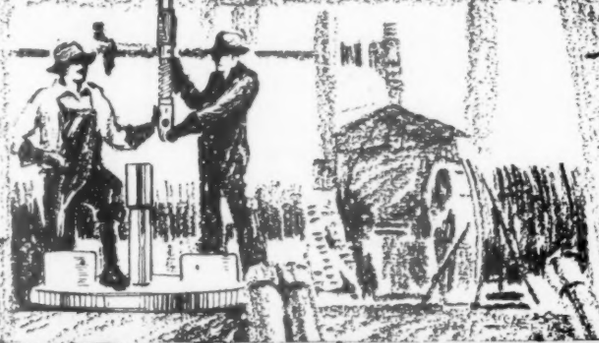
## All of Abercrombie's experience in cutting out hundreds of wells —YOURS on a CONTRACT BASIS!

IT TOOK YEARS of pioneering and hundreds of different cutting experiences before men COULD know just what kind of a cutting tool to make—and how to use it—to get the best results in cutting out pipe, liner and screen.

The J. S. ABERCROMBIE organization, designers and manufacturers of the ABERCROMBIE IMPROVED INSIDE CUTTING TOOL—together with their nine thoroughly experienced SERVICE MEN who operate the tool—are "writing history" in the art of well cutting for many of the major oil companies today.

You, too, can take advantage of this specialized service—on an inexpensive contract basis. Let us estimate your next cutting job. A phone call or telegram today, will bring a SERVICE man to your lease tomorrow.

Progressive operators KNOW FROM EXPERIENCE that it does not pay to experiment when they can secure ABERCROMBIE SERVICE. The many "repeat contracts" from companies once served, are our strongest recommendations.



# J. S. ABERCROMBIE Co.

## 616-18 West Bldg., Houston, Texas, U.S.A.

*Say you saw it in The OIL WEEKLY*

# PERMITS GRANTED FOR NEW WELLS

## WEEKLY COMPARISON OF NEW WELLS

**Following is a condensed table giving a comparison of permits or locations made for new wells during the past year in Kansas, Oklahoma, Arkansas, Louisiana, Texas, California and the Mountain States:**

| | Week ending July 21 | Previous week | Total this month | Total this year | This week last year | This month 1927 | Total same date 1927 | Year total 1927 |
|---|---|---|---|---|---|---|---|---|
| Arkansas | 9 | 15 | 37 | 252 | 6 | 15 | 270 | 329 |
| California | 18 | 21 | 69 | 568 | 21 | 55 | 818 | 1,226 |
| Louisiana | 9 | 8 | 29 | 394 | 15 | 60 | 399 | 812 |
| Kansas | 28 | 15 | 62 | 599 | 14 | 58 | 612 | 972 |
| Oklahoma | 68 | 85 | 249 | 1,968 | 75 | 240 | 2,443 | 3,702 |
| Texas | 171 | 172 | 512 | 4,489 | 157 | 379 | 5,790 | 8,665 |
| Mountain States | .. | .. | .. | .. | .. | .. | 311 | 494 |
| Totals | 303 | 316 | 958 | 8,270 | 288 | 807 | 10,593 | 16,149 |

### ARKANSAS

ASHLEY COUNTY—Atlantic Oil Producing Co.'s Moffett 1, 28-16-8, 330 ft s and 330 ft e of nw corner of nw¼ ne¼.

BRADLEY COUNTY — Ohio Oil Co.'s Southern Lbr. Co. 1, 15-16-10, lcn not checked.

NEVADA COUNTY—Autrey Oil Co.'s Martin B-2, 6-14-20, 330 ft s and 250 ft w of ne corner of sw¼ nw¼. Humble O. & R. Co., Groves C-4, 1-14-21, 1650 ft e and 990 ft n of sw cor of sec. Humble O. & R. Co., Groves C-6, 1-14-21, 1040 ft s and 1040 ft w of center of section.

UNION COUNTY—Reed Clark Tr.'s Dumas 1, 8-17-16, nw cor of nw¼ sw¼. Marr & Hooser's Horton 1, 12-18-15, 330 ft s and 330 ft w of ne nor of ne¼ sw¼. Pure Oil Co.'s Gaddy 1, 13-17-14, 330 ft n and 330 ft e of sw cor of se¼ nw¼. Reliance Drilling Co.'s Kelly 1, 9-17-14, ne cor of nw¼ nw¼ se¼.

### OKLAHOMA

BECKHAM COUNTY—Magnolia Pet. Co., Hawkins 1, nwc se ne, 21-9n-23w.

CARTER COUNTY—Schermerhorn et al, Crockett 6, nec sw, 23-1s-3w. Magnolia Pet. Co., Powers 1, nec 4-2s-3w. Max Westheimer, Dixon 5, nwc, 18-1s-3w.

CREEK COUNTY—Peters Pet. Co., Burford 1, sec sw, 36-16-10e. Flynn & Morgan, Watley 1, nec se, 17-14-8e. Glenora Ref. Co., Walker 4, nec nw nw, 23-17-8e. Magnolia Pet. Co., Jones 2, c ne se, 35-17-7e.

GARVIN COUNTY—Magnolia Pet. Co., Harris 6, se sw nw, 16-1n-3w.

JACKSON COUNTY — Altus Dev. Co., Northington 1, nec, 4-1n-20w.

JEFFERSON COUNTY — Lesh & McCall, Peniston 6B, se sw sw se, 17-7s-5w. Peniston 6A, nwc sw se, 17-7s-5w. Peniston A5, swc ne sw se, 17-7s-5w. McGinley & Sigler, Trout 1, sec sw nw, 17-7s-6w. Bridwell et al, Spring 4, nec sw sw, 24-6s-6w.

KAY COUNTY—Carter Oil Co. and Ona Oil Co., Shimp 8, cel w½ nw sw, 17-29-1e. Marland Oil Co. and Amerada Pet. Corp., White 3, c sw nw, 17-29-1e. Carter Oil Co. and Ona Oil Co., Johnson 3, cwl e½ se ne, 18-29-1e. Nye & Farrell, Gillig 1, nw sw nw, 28-29-1e. Comar Oil Co., McCullough 1½, sw se, 5-28-1w. Nehr & Wilson, Tieman 1, sec nw, 20-27-1e. Ingram & Wilson, Harris 1A, cwl e½ ne nw, 31-27-2e.

LINCOLN COUNTY—Shaffer Oil & Ref. Co. et al, Pinkston 1, nec sw, 23-15-6e.

MARSHALL COUNTY — J. L. Dixon, Woody 1, sec ne nw se, 20-5s-5e. Armstrong et al, Sullivan 1, nwc ne sw nw, 30-5s-6e. Humble Oil & Ref. Co., Sullivan 5, nec, 25-5s-5e.

MUSKOGEE COUNTY—H. S. Swanson et al, Jackson 2, nwc ne sw sw, 8-14-19e. W. J. Metzger et al, Francis 2, csl e½ w½ sw, 1-14-18e. W. W. Baines et al, Ratley 1, nec, 17-15-19e.

OKMULGEE COUNTY—J. E. Wallace, Colbert 6, cwl nw se, 14-14-14e. Harry Smith et al, Charles 1, se nw se, 12-15-14e. J. H. Rebold, Benson 1A, sec sw, 3-14-11e.

PAWNEE COUNTY—Fortner et al, Mitchell 1A, cwl nw se, 27-20-9e. Peter Adamson, Jr. 1, sec, 24-21-7e.

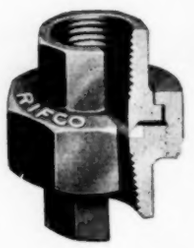
POTOTOC COUNTY—Hughes et al, Gann 2, nw ne sw, 15-4n-7e. American Oil & Ref. Co., Jones 1, nec, 18-5n-5e. Dixie Oil Co., Norman 1, nw se ne, 13-5n-4e.

POTTAWATOMIE COUNTY—T. B. Slick, Lynn 4, sw ne nw, 30-7-5e. Lynn 3, se ne nw, 30-7-5e. Lynn 2, nw ne nw, 30-7-5e. Roxana Pet. Corp., Stahl 1, swc ne, 30-7-5e. Barnsdall Oil Corp., Stahl 1, nw sw ne, 30-7-5e. Mid-


GUARANTEED not to leak!

"RIFCO"
Lip Union

FOR 300 POUNDS
WORKING PRESSURE




Every RIFCO Union is tested with compressed air under water and backed by a Replacement Guarantee against leakage or defects. An extra heavy duty union of best malleable iron, brass to iron seat. Extra wide contact at seat gives added assurance of absolutely tight joint. Sizes ⅛" to 4". Gives perfect satisfaction under heavy duty and high pressures.

*We also manufacture 2-part and 3-part Flange Unions. Sizes 2" to 12".*

ASK YOUR DEALER

Rhode Island Fittings Co.

*Warehouse stocks at Fort Worth and Providence*

PROVIDENCE, R. I., U. S. A.

*Agent:* C. F. ADAMS, Fort Worth, Texas



Approved for Field and Refinery Service

Stanley

Solid Woven Cotton Belting

*The Most Flexible Belt Made*

In addition to rating among the strongest, as proven in tests by accredited engineers, Stanley Solid Woven Cotton Belting is the most flexible on earth.

You can easily wrap a triple belt around your wrist.

This flexibility gives close contact with pulley faces, minimizing slippage and permits the use of Stanley on the smallest pulleys.

*Made in accordance with A. P. I. specifications*

STANLEY BELTING CORPORATION

15 N. Jefferson St., Chicago
536 Lyons Avenue, Irvington, N. J.

124 Adelaide St., W. Toronto, Ont.

42A Southwark St., S. E. 1, London, England

WAGNER SUPPLY COMPANY OF TEXAS

Best Borger Breckenridge Cross Plains Odessa

H. E. Unsell, 119 North A. Street, Arkansas City, Kansas

W. R. Tucker
5311 Richard Ave.,
Dallas, Tel. 3-6525

James T. Sullivan
c/o Tulsa Storage & Transfer Co.,
Tulsa, Okla.
Phone 4-0151

STANLEY BELTING
MADE IN SCOTLAND

Pacific Coast Rubber Co.,
51 Main Street,
San Francisco, Cal.

500 E. 3rd St.,
Los Angeles, Cal.

Black Transfer Co.,
El Dorado, Ark.

# H-E Flow Tester

Besides being the first to secure Patent Protection on a single string Flow Tester, we will shortly present the Oil Fraternity a FURTHER IMPROVED Edwards Flow Tester. It will not only agitate the fluid adjacent to the formation being tested but also put that formation under a vacuum so as to start the flow.

We are leading the way with this and other important improvements, one of which is our combination releasable packer that makes for safety when testing in soft, rotten formations such as are encountered in the Gulf Coast and other localities.

## HOUSTON ENGINEERS, Inc.

PRESTON 1927 NIGHT—TAYLOR 1996 P. O. BOX 276

HOUSTON, TEXAS

*Say you saw it in The OIL WEEKLY*

# LUDLOW

OFFERS A
STANDARDIZED
LINE OF
HIGH-CLASS
DOUBLE GATE PARALLEL SEAT
VALVES
INCLUDING
CYLINDER,
HYDRAULIC,
AIR,
ELECTRICAL or
MANUAL
OPERATED !

Ludlow manufactures all kinds and sizes of double gate parallel seat valves—for any type of operation.

THE LUDLOW VALVE MANUFACTURING CO.
Troy, New York

CHICAGO BOSTON KANSAS CITY PITTSBURGH

TRADE LUDLOW MARK

*Distributed by*
Mid-Continent Supply Company, Fort Worth, Texas
Peden Iron & Steel Company, Shreveport, Louisiana
Henderson Iron Works, Shreveport, Louisiana

# Ayer & Lord Tie Co.

*Incorporated 1893*

Railroad Cross Ties Lumber Poles

**CHICAGO**

Bridge Timbers Car Stocks Piling Posts

*Treating Plants*

Carbondale, Ill. Grenada, Miss. North Little Rock, Ark. Louisville, Ky. Montgomery, Ala.

"WE SPECIALIZE IN TELEPHONE POLES"


Continent Pet. Corp., Guinn 1, sw se ne, 20-7-5e. Magnolia Pet. Co., Yants 3, sw ne sw, 19-7-5e. Youts 2,swc, 20-7-5e. Panther Oil Co., Townsite 1, 23-7-4e. Interocean Oil Co., McGee 4, se ne se, 23-7-4e; McGee 3, nwc se, 23-7-4e. Prairie Oil & Gas Co., Gammon 4, sec nw, 30-8-5e. Prairie O. & G. Co., Gammon 3, nw se nw, 30-7-5e.

SEMINOLE COUNTY—Prairie O. & G. Co., Gibson 5, ne sw nw, 14-7-7-6e. Harris 3, nec sw, 14-7-6e. Gibson 4, sec nw, 14-7-6e. Prairie O. & G. Co. and Amerada Pet. Corp., Sunny 7, sw ne nw, 14-7-64. Amerada Pet. Corp. and Prairie O. & G. Co., Sunny 6, se nw nw, 14-7-6e. Prairie O. & G. Co., Gibson 6, nw se nw, 14-7-6e. Barnsdall Oil Corp., Walker 1, nec nw, 4-7-6e. Twin State Oil Co., Walker 1, ne nw nw, 4-7-6e. Barnsdall Oil Corp., Walker 2, nw ne nw, 4-7-6e. Gypsy Oil Co., Denmark 3, ne sw se, 11-7-6e; Hulhoke 6, se ne se, 14-7-6e; Hulhoke 7, se sw se, 14-7-6e; Hulhoke 8, nw se se, 14-7-6e. Barnsdall Oil Corp., Williams 3, se sw ne, 15-7-6e. Dilines et al, Robertson 1, swc se se, 30-7-6e. W. B. Pine, Hoyecha 6, ne se se, 26-8-6e. Burke Greis, Lucy 1, csl nw ne se, 18-5-8e. Mid-Continent Pet. Corp., Fleet 8, se nw se, 7-5-8e.

STEPHENS COUNTY—Heydrick et al, Pool 1, swc, 35-1s-8w. Isling, Russell & Nance, Houston 1, ne sw sw, 12-1s-7w. Harry Hanbury, Taliaferro 2, sec ne se, 28-1s-8w.

WAGGONER COUNTY—H. H. Orr, Grayson 3, csl se se sw, 34-17-18e.

## KANSAS

BUTLER COUNTY—Empire Gas & Fuel Co. et al, Sluss 2, ne se nw, 6-27-6e. Ramsey, Simpson 2, cwl sw nw, 5-27-6e. Tidal Oil Co. and Mathews, Unger 1, csl sw sw, 31-26-6e. Dixie Oil Co., Marshall 3, se nw nw, 10-27-6e. Empire Gas & Fuel Co., Cranston 4, ne sw se, 22-27-5e.

COWLEY COUNTY—Trees Oil Co., Hittle 3, nw se ne, 21-31-4e. Kentucky Nitrogen & Oxygen Co., Townsite 3, nec nw sw, 13-33-6e. Townsite 2, lot 15, blk 2, Wagner Addition, 18-33-7e.

ELK COUNTY—Sonner Gas Co., Webb 1, nec sw sw sw, 10-31-10e. Odell et al Palmer 1, nw sw sw, 10-31-10e.

ELLIS COUNTY—T. B. Slick, Craid 1, c nw, 8-11-16w. Phillips Pet. Co., Shutts 1, c ne, 5-12-7w.

GEARY COUNTY—Wright et al, Yanken 1, nwc ne, 17-11-5e.

GREENWOOD COUNTY — Amerada Pet. Corp., Luthi 2, nwc sw, 29-22-13e. Doaks Bros. Giese 1, sec nw, 4-26-13e. Simmons & Rhodes, Schwab 5, nec se, 30-22-13e. Skelly Oil Co., Schwab 5, sec ne, 30-22-13e. Bisango Bros., Gilrcy 1, se sw nw, 5-25-13e. Pryor, Lockhart and White Eagle Oil & Ref. Co., Wenzler 1, swc nw, 29-22-13e.

MORRIS COUNTY—Thad O'Day, Scott 1, nec sw, 6-16-6e.

RILEY COUNTY—W. R. Wilson, Runnells 1, c w½ section, 4-11-8e.

RUSSELL COUNTY—Gypsy Oil Co., Cook 1, c ne se, 10-13-15w. R. E. Day et al, Mermis 3, nw se ne, 32-13-15w. Wilcox Oil & Gas Co., Mermis 3, 18-12-45w.

SUMNER COUNTY—Amerada Pet. Corp., Gassoway 11, nwc ne se sw, 14-32-2e. Roxana Pet. Corp., Rothwell 2A, sec sw ne sw, 14-32-2e. Barnsdall Oil Corp. and Palmer Weinrich 10, nec sw ne nw, 23-32-2e. Davidson et al, Strickland 1, swc se, 12-35-1w. Gypsy Oil Co., Williams 1, nw se sw, 16-35-3w.

## TEXAS

ARCHER COUNTY—Sun Oil Co., Dallas, H. Ford 2, E. H. Fitzgerald sur, 50 ft e of No. 1. J. B. Alford, Dallas, J. L. Anderson 2, S 89, B4 C&P sur, 150 ft from n and 200 ft from e line. Petroleum Prod. Co., Wichita Falls, L. F. Wilson 6, B 249, Geraldine sur, 120 ft from w and 210 ft from s line. Texas Co., Wichita Falls, L. R. Griffith 2, B 12, D.C.S.L sur, 50 ft e of No. 1.

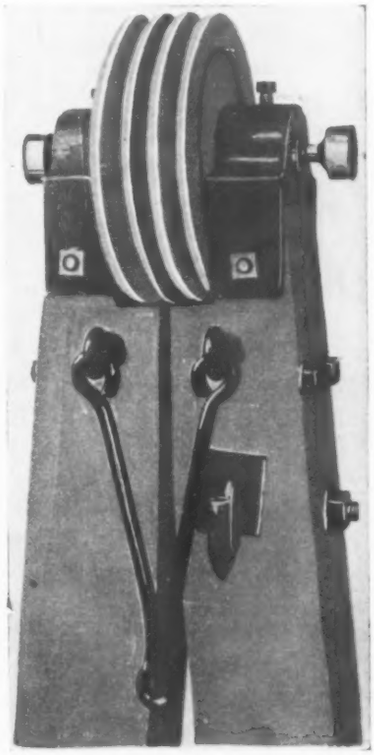
ATASCOSA COUNTY — Witherspoon Oil Co., San Antonio, C. H. Pue 1, J. Gray sur, 2200 ft from n and 300 ft from w line.

ANDERSON COUNTY—Humble Oil & Ref. Co., Houston, T. H. Jones 2, D. Roberts sur, 150 ft from s and e lines.

BROWN COUNTY—W. T. Daniel et al, Brownwood, R. A. Thomason 1, No. 356 J.

# SAFETY PULLING MACHINE *Company*

Wishes to Announce that the Safety and Eclipse Special Pulling Machines (7x10x36 ft. A-Mast) size will be equipped with the Double Crown Pulleys, fitted with 2-15/16 Phosfer Bronze Bushings.



The price to remain the same. Safety $375.00. Eclipse $350.00. F. O. B. Factory.

Either the complete Machine or the Stripped Derrick equipped as above.

*For complete description write*

**Safety Pulling Machine Co.**

INDEPENDENCE, KANSAS

P. O. BOX 525

# BARSCO PRODUCTS
## —for Oil and Gas Well Drilling

*Forged* *Steel*

BARSCO Die Nipples, male and female or combination are constructed from special *forged steel* having a tensile strength of from 90,000 to 110,000 pounds.

The flutes are fabricated so as to shut off water.

The name BARSCO stamped on each nipple is your guarantee of lasting service—place your order for BARSCO Products.

*SPECIFICATIONS*

| Size Pipe, Inches | Length, Inches | Weight, Pounds |
|---|---|---|
| 2 | 10 | 15 |
| 2½ | 10 | 15 |
| 3 | 10 | 15 |
| 4 | 10 | 20 |
| 4½ | 10 | 20 |
| 4¾ | 10 | 20 |
| 4⅞ | 10 | 20 |
| 5-3/16 | 10 | 20 |
| 6 | 11 | 30 |
| 6¼ | 11 | 30 |
| 6⅝ | 11 | 30 |
| 8¼ | 12 | 40 |
| 10 | 12 | 60 |
| 12½ | 14 | 105 |
| 14 | 15 | 115 |
| 15½ | 15 | 150 |
| 16 | 15 | 150 |
| 18 | 16 | 170 |
| 20 | 16 | 195 |

Intermediate sizes, also sizes larger or smaller than listed can be furnished.

Note:—Smallest inside measurement is the same as inside diameter of pipe or casing on which nipples are to be used. In ordering, give size, weight, pitch of thread and make of casing on which nipple is to be used and also size and weight of casing through which nipple is to pass.

**Bartlesville Supply Company of Missouri**

3400 MAURY AVENUE—ST. LOUIS, MISSOURI

Export Office: 150 Broadway, New York City

*Oklahoma Warehouse:*

Tulsa—J. H. Kountz, 218 East Brady St.

*Texas Warehouse:*

Amarillo—J. G. Lockard—504 Western Ave.

*Stock Carried by Dealers*

BARSCO PRODUCTS

for oil and gas well drilling. Drive Shoes—Casing Shoes—Die Nipples—Rotary Tool Joints—Braden Heads—Rubber Swabs—Gas Packing Clamps—Anchor and Tubing Clamps—Stop Cocks. Write for complete catalog.

*Now you can install culverts without interruption to train or highway traffic*

Where a new culvert is needed in an existing fill or embankment, it can now be installed, without disturbing the flow of railroad or highway traffic, by *jacking*.

This process drives the culvert into place easily and economically. It eliminates false work and excavation, and reduces costs often as much as two-thirds under that of other methods.

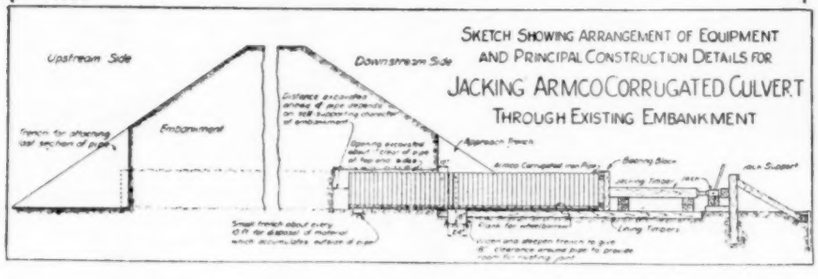
Nor does this method of placing culverts require elaborate equipment or skilled labor. The plan below shows something of the simplicity of the method, and any of our three Texas factories will be glad to furnish you with complete details. Your inquiry will put you under no obligation.

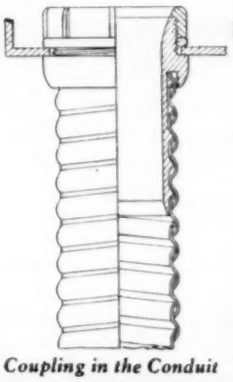
**Western Metal Manufacturing Company**

El Paso, Texas P. O. Box 598 — Houston, Texas P. O. Box 1353 — Dallas, Texas P. O. Box 818 — San Antonio, Texas 520 Carolina St.

P. O. Box 1370, Arcade Station, Los Angeles, California.

1128



**Flexible Conduit Connections should be**

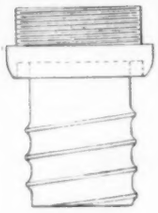
**"JAKE"**

Cast in Brass in sizes ½ to 2 inches

*Also*

Adapters for present Installation

*Write for details if your dealer can't supply you*



*Coupling*

**Hunter-Walker Company**

*Coupling in the Conduit*

809-813 Public Nat'l Bank Bldg., HOUSTON, TEXAS

Berry sur, 150 ft from n and e lines; Fee 1, No. 55 M. Duncan sur, 150 ft from s and e lines. S. B. Owens, Brownwood, J. V. Sewalt 1, S 15, J. M. Steiner sur, 150 ft from s and e lines. Caudle & Flint, Brownwood, G. H. Copeland 1, 150 ft from n and e lines. Cranfill & Reynolds, Cisco, J. B. Eubanks 10, No. 141 R. Mitchell sur, 558 ft from n and 150 ft from w line. J. H. Green & Co., Inc., Brownwood, W. L. Hill 1, S 8, E. T. Ry. sur, 750 ft from w and 150 ft from s line. I. T. Dennis et al, San Angelo, E. D. Maren 1, S 30, HT&B sur, sw corner. C. O. Moore Oil Corp., St. Louis, Mo., N. E. Munselle 1, W. Ahrenbeck sur, 750 ft from e and 150 from s line; N. E. Munselle 2, 450 ft from e and 150 ft from s line. Goldricks & Zoch, Fort Worth, C. B. Eddington 1, B 34, G.C.S.L. sur, 1320 ft from n and e lines. Midland Oil Co., Fort Worth, G. T. Butler 8, No. 783 T. Benson sur, 417 ft e of No. 6.

BRAZORIA COUNTY—Moody Corp., Houston, Jamison 1, C. Smith sur, 5000 ft from e and 1680 ft from n line.

BURLESON COUNTY—Martin & Herring, Somerville, J. Stolz 1, J. H. Dewitt sur, se corner; W. R. A. Rogers 2, T. B. Reese sur, nw corner.

CALLAHAN COUNTY—Moutrey Oil Co., Abilene, J. M. Flores 27, S 149, BBM&C sur, 360 ft n of No. 26. V. W. Swoveland, Ranger, Hall 2, S 227, E. T. Ry. sur, 150 ft from n and e lines. Manhattan Oil Co., Abilene, A. T. Young 14, S 129, BBM&C sur, 600 ft sw of No. 13. St. Mary's Oil & Gas Co., Moran, J. E. Pruet 9, S 2287, TE&L sur, 300 ft e of No. 7. E. E. N. Schaffner et al, Cross Plains, E. M. Long 2, W. G. Anderson sur, 312 ft e of No. 1. Roy G. Baker, Fort Worth, R. C. Wylie 4, 2040 TE&L sur, 750 ft from n and 875 ft from e line. Thompson & Loomis, Baird, R. H. Seale 1, S 249, T. P. Bond sur, 150 ft e of center of w line. Dickey Oil Co., Cisco, Texas, R. D. Williams 2, S 25, D&D Asy. sur, 150 ft from s and e lines. W. A. Thompson, Baird, R. H. Seale 1, S 249, T. P. Bond sur, 150 ft from w and 1485 ft from s line.

COLEMAN COUNTY—Roth & Faurot, Valera, R. C. Terry 1, No. 57 C.C.S.L. sur, 344 ft from s and 165 ft from e line. A. L. Derby, Wichita, Kansas, L. P. Jennings 6, A. S. Lipscomb sur, 550 ft from e and 150 ft from s line. Henry Curtis, Brownwood, E. W. Gill 1, S 70, W. B. Blanchard sur, 4000 ft from n and 2000 ft from w line. J. L. Dodgin, Santa Anna, M. A. Kirkpatrick 1, S 495, B 3, H. N. Cleveland sur, nw corner. Midsun Oil Co., Brownwood, O. B. Manes 1, S 49, J. A. Poole sur, 150 ft from s and w lines. Fred Shield et al, Coleman, D. Strickland 1, S 1, W. C. Ry. sur, 600 ft from w and 1700 ft from s line. Shaw, Fox and Adams, Burkett, J. R. Adames 2, No. 168 A. Wickson sur, 1700 ft from n and 100 ft from w line. Charter Oil Co., Brownwood, C. A. Crump 3, No. 665 J. Scott sur, 325 ft e of No. 2. J. F. McMammon, San Angelo, F. B. Hill 2, No. 664 S. Sprague sur, 450 ft from e and 150 ft from n line. Eastland Oil Co. et al, Fort Worth, J. P. Morris 2B, No. 722 W. Weber sur, 330 ft from n and e lines; J. P. Morris 3A, No. 722 W. Weber sur, 150 ft from n and e lines.

CALDWELL COUNTY—Magnolia Pet. Co., Dallas, M. F. Gary 2, J. R. Miller sur, 150 ft from nw and 1846 ft from sw line. Sun Oil Co., Dallas, E. H. Talley 7, W. C. Swearingen sur, 300 ft nw of No. 5. Magnolia Pet. Co., Dallas, R. Rios, 21, J. Henry sur, ne corner.

CASS COUNTY—E. H. Pigg, Vernon, W. S. Burleson 1, W. F. Young sur, 205 ft from s and w lines.

CLAY COUNTY—Bain & Clark, Iowa Park, B. Landrum 5, B 4, P.C.S.L. sur, 300 ft s of No. 3.

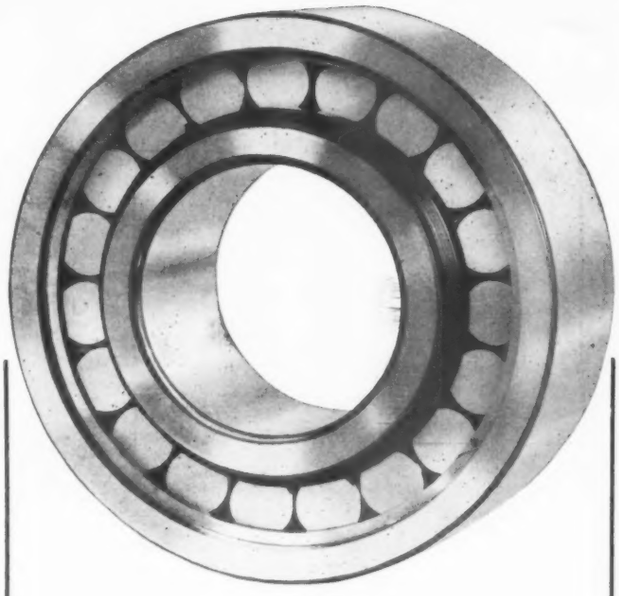
COMANCHE COUNTY—J. T. Regan Sipe Springs, W. H. M. Haile 2, No. 1 sur, sw corner.

COOKE COUNTY—American Ref. Co., Wichita Falls, J. A. Dennis 15, T. J. Moss sur, 700 ft from n and 150 ft from e line.

CHAMBERS COUNTY—Humphreys Corp., Houston, E. W. Barber 2A, H. Griffith sur, 222 ft from sw and 1070 ft from se line.

CRANE COUNTY—Simms Oil Co., Dallas, University F1, S 45, B 30 Univ. Lands sur, ne corner.

EASTLAND COUNTY—Panhandle Ref. Co., Wichita Falls, E. H. Webb 2, E. Finley sur,



# ROLLWAY
## CYLINDRICAL ROLLER BEARINGS

## Two New Types
### for Extra Heavy Service

Rollway "Maximum Wide" and "Maximum Wide Floating" Radial Bearings are logical developments of the Rollway Type MDW which has proved so successful in heavy duty applications. These two new types, described and listed in Rollway Bulletin No. 59, meet two distinct needs: first, for a bearing with even greater capacity than type MDW, with ability to locate the shaft axially; and second, for a bearing with liberal internal axial float.

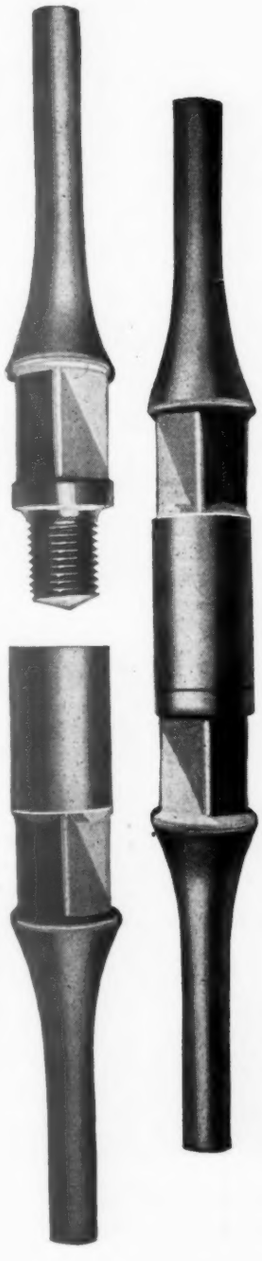
These bearings are interchangeable with equivalent sizes of double row ball bearings and taper roller bearings. The floating bearings (Type MF) are particularly useful in applications where a reasonable amount of end play is desirable or necessary.

Send for Bulletin No. 59, or ask our Engineers to recommend bearings to fit your needs.

**Rollway Bearing Co., Inc.**
Syracuse, New York

# You Can't Stump Buffalo Sucker Rods

## —and We Have Plenty of Evidence



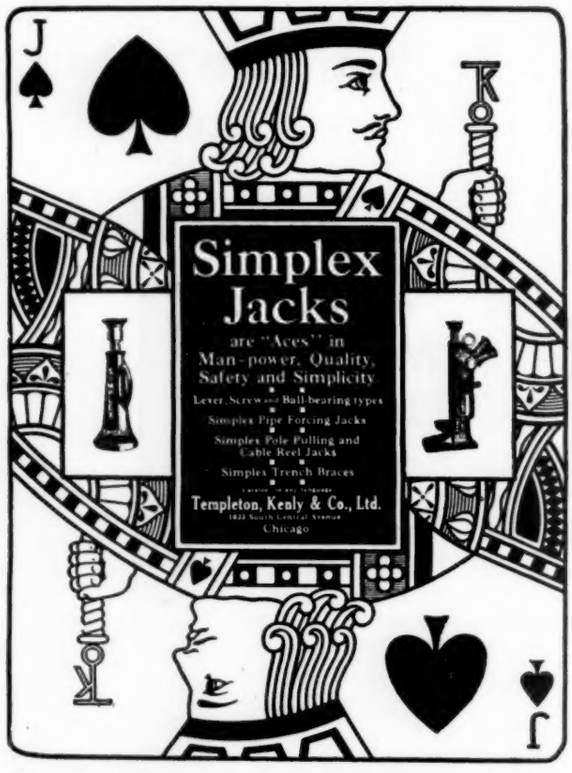
**Operators that have used this rod will tell you that it does not have to be nursed — it can't be stumped. But moreover, you don't have to take our word for it—send us an order now — try Buffalo Sucker Rods out any way you like — if they are not satisfactory, you are not out a thing — we will stand the expense.**

**Get in communication with us now. The evidence we have that Buffalo Sucker Rods will meet your exacting demands, will win you over and you will be everlastingly glad to get hold of such a rod.**

*Correspondence from Supply Companies and Dealers invited*

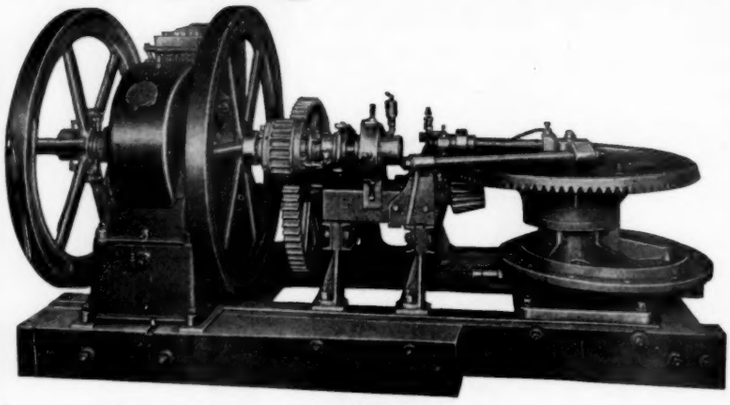
**BUFFALO BOLT COMPANY**
NORTH TONAWANDA, N. Y.

SALES OFFICES
Monadnock Bldg., Chicago, Ill. — General Motors Bldg. Detroit, Michigan — Pioneer Trust Bldg. Kansas City, Mo.




*Simplex Jacks are carried in stock by leading oil well supply houses everywhere.*

**Lightning Oil Well Pumping Power No. 3**



**Inverted Drive Gear. A Full 18" Stroke.**
**Main Eccentric Shaft 4½" Dia. Hub Bearing 17" Long.**

FULL AUTOMATIC POSITIVE LUBRICATION

Equipped 12 h. p. Stover Engine, Madison-Kipp Lubricator, or without engine, especially built for electric motor drive. Double gear reduction. No Counter shaft required.

Also—Lightning Beam Hangers, Pumping Jacks, Swings, Stuffing Boxes, Etc.

**KANSAS CITY HAY PRESS CO., Kansas City, Mo.**

1000 ft from e and 900 ft from s line. I. J. Eley et al, Eastland, H. S. Schmick 1, S 1, 4 H&TC sur, 150 ft from s and w lines.

ERATH COUNTY—Peters, Beard & Gaforth, Thurber, E. A. Davis 1, M. Goff sur, 400 ft from n and 600 ft from e line; E. M. Barton 1, S. Kelly sur, 600 ft from e and 400 ft from s line; J. W. Conway 1, Espinosa sur, 300 ft from n and w lines.

FORT BEND COUNTY — Moody Corp., Houston B. M. West 1, T. Hobermaker sur, 350 ft from w and 600 ft from n line. Gulf Production Co., Houston, B. Blakely 14, Blk G. E. Drew sur, 50 ft from s and e line of lot 4. Humble Oil & Ref. Co., Houston, Dew 1, Wm. Little sur, 150 ft from ec and 165 ft from s line; M. C. Camp 1, Wm. Stafford sur, 450 ft from w and 350 ft from s line. Sun Oil Co., Dallas, E. C. Farmer 3, J. Scott sur, 400 ft from n and 100 ft from e line.

GRAY COUNTY—Texas Co., Wichita Falls, M. L. Langham 1, S 1 B B2, H&GN sur, 330 ft from n and 257 ft from e line. Gulf Prod. Co., Fort Worth, H. Thut 1, G. Zweig sur, 250 ft from s and w lines. McIlroy Oil Co., Inc., Amarillo, B. Bull 1, S 3, B B2, H& GN sur, 260 ft from n and e lines. Prairie Oil & Gas Co., Ranger, A Thut 2, H. Thut sur, 330 ft from s and e lines.

HARDIN COUNTY — Paraffine Oil Co., Houston, Fee 75, 75 ft from w and 40 ft from s line. E. W. Skinner Oil Co., Saratoga, Sisler 1, M. E. Hopkins sur, 25 ft from n and e lines. Humphreys Corp., Houston, H. Blum 1, S. Jackson sur, 12 ft from e and 10 ft from s line.

HUTCHINSON COUNTY — Phillips Pet. Corp. Bartltesville, E. B. Dorset 7, S 64, B 46, H&TC sur, 745 ft from w and 55 ft from s line.

HOWARD COUNTY—Group 1 & Marland Oil Co., Fort Worth, W. R. Settles 3A, S 135, B 29, W&NW sur, 330 ft from n and e lines; 5A, 1980 ft s of No. 3. F H E Oil Co. & Moody Corp., Sherman, D. Roberts E7, S 136, B 29, W&NW sur, 330 ft from n and w lines; E8, 330 ft from s and e lines; D. Roberts B4, S 137, 330 ft from s and w lines. Greene Oil & Ref. Co., Fort Worth, H. R. Clay 2, S 127, B 29, W&NW sur, 250 ft from s and w lines; 3, 660 ft from w and 250 ft from s line. Gulf Prod. Co., Fort Worth, H. R. Clay 2, S 155, B 29, W&NW sur, 300 ft n of No. 1; O. Chalk 5, S 125, B 29, W&NW sur, 637 ft s of No. 4. Schermerhorn Oil Co., Tulsa, Okla., D. Roberts 2, S 157, 330 ft from n and e lines. Magnolia Pet. Co., Dallas, D. Roberts 10, S 136, B 29, W&NW 60 ft w of No. 6.

HOOD COUNTY — Samson Oil Co., Fort Worth, Juliff 1, W. M. Harper sur, 1320 ft from e and 200 ft from s line.

IRION COUNTY—Moore & Kennedy, Fort Worth, F. Tankersley 1, S 23, GC&SF sur, 200 ft from n and w lines.

JONES COUNTY—McMan Oil & Gas Co., Tulsa, J. W. Tiner 1, S 14, B -9, T&P sur, 300 ft from n and 260 ft from e line. Phillips Pet. Corp., Bartlesville, S. Boy 1, S 19, B 19, T&P sur.

JEFFERSON COUNTY — Yount-Lee Oil Co., Beaumont, Gladys 65, B 100, J. A. Veatch sur, 75 ft from e and 68 ft from s line; McFaddin 76, P. Humphreys sur, 105 ft from w and 470 ft from n line; 77, 341 ft from e and 1083 ft from n line.

JIM HOGG COUNTY — Alworth, Stevens, Hild & Co., Laredo, M. Garza 12, S 39, B 8, 140 ft from ne and 85 ft from se line. Magnolia Pet. Co., Dallas, Merchants Bk. 39, S 415, F. M. Brister sur, 960 ft se of No. 38.

JACK COUNTY—J. L. Bordeaux et al, Fort Worth, J. A. Brown 1, S 2, W. C. Ry. sur, 320 ft from e and 300 ft from s line.

LIMESTONE COUNTY — O. W. Killam, Laredo, R. Ward 1, R. C. Whitaker sur, 150 ft from nw and 450 ft from sw line.

MONTAGUE COUNTY—J. I. Lesh & Co., Wichita Falls, J. W. Maddox 6, B 4, H. S. Arnold sur, 451 ft e of No. 1. Pure Oil Co., Fort Worth, F. E. Loy 8, W. Donoho sur, 450 ft s of No. 7.

MOORE COUNTY—Prairie Oil & Gas Co., Ranger, O. E. Gober 3, S 16, B M1, O. E. Gober sur, 230 ft from n and 890 ft from w line.

MILAM COUNTY—White Bros., Rosebud, S. C. Souther 1, L. Taylor sur, 150 ft from n and w lines.

# MEAD-MORRISON

## No Other Winch Will Do the Work Done by Mead-Morrison Winches

says Neil Comer of Wewoka, Okla., and he now owns 7 Mead-Morrison.

*Ask our Distributor for a catalog No. 29*

MEAD-MORRISON MFG. CO.

761 Prescott St. Boston, Mass.

SOUTHWESTERN DISTRIBUTORS

Hobbs Mfg. Co., Fort Worth, Texas
Eller & Gripp Co., Houston, Texas
Williamson Motors, Inc., Tulsa, Oklahoma
Nat'l Steel Prod. Co., Kansas City, Missouri

CRANES MOTOR TRUCK WINCHES DERRICKS



# *Two Important Oils for All Jobbers*

**SUN *No.* 96 GOLDEN —** A perfect oil for blending. With this remarkable product as a basic oil and any good 150-200 Viscosity oil, you can compound *better* oils of any desired viscosity—to sell at a greater profit to you.

Two storage tanks and a mixing tank are all you need. Tankage and storage space are greatly reduced, with consequent lower cost and overhead.

HIGH FLASH — HIGH FIRE — LOW COLD TEST
LOWEST CARBON CONTENT — GOOD DEMULSIBILITY
VISCOSITY 80-90 at 210 F. — PALE COLOR — PRICED RIGHT

**SUN *No.* 87 BRIGHT STOCK —** The unequalled purity and low carbon content of this *distilled* 600 Fire Test Bright Stock enables you to compound 100 per cent Lubricants. No residual stock. No wax. No hard carbon. And at a lower cost.

Sun No. 87 costs you less than other heavy oils and you require less of it to make oils of given viscosities.

VISCOSITY 150 to 175 at 210 F. — FIRE 600
LOW COLD TEST — GOOD DEMULSIBILITY
CONRADSON CARBON CONTENT BELOW 1% — COLOR 7

*Write for Full Information and Mixing Data on These Oils*

## SUN OIL CO., Philadelphia

*Dallas Sales Office:* American Exchange Bank Building
*Branches in Principal Cities*

# Phillip Maverick

*Consulting Geologist*

Rust Building Phone 93

SAN ANGELO,
TEXAS

*Surface, Subsurface and Magnetometer Surveys.*
*Specialty West Texas*



**BUY OR RENT USED PIPE**
**and Save the Difference**

We have the following pipe in the Panhandle District that was purchased new and used in one well:

| | |
|---|---|
| 3600′ 6⅝″ 24-lb. seamless casing. | 1200′ 12½″ 50-lb. casing. |
| 200′ 20″ 90-lb. casing. | 2000′ 10″ 45-lb. casing. |
| 500′ 15½″ 70-lb. casing. | 2800′ 8¼″ 32-lb. casing. |

Will rent this casing or any other pipe which you may need. Let us finance your operations by carrying your pipe and casing investment for you.

BRANCH STORES
Wichita Falls, Holliday, Vernon, Breckenridge, Texas

EASTERN HEADQUARTERS
Butler, Penna.

**Keystone Pipe & Supply Co.**

HOLMES BUILDING
FORT WORTH, TEXAS



**CARBON (BLACK DIAMONDS)**
**FOR DIAMOND CORE DRILLS**

— IMPORTERS —
INDUSTRIAL DIAMONDS
— MANUFACTURERS —
DIAMOND POINTED TOOLS FOR ALL MECHANICAL PURPOSES

WRITE OR WIRE FOR CATALOGUE AND FULL PARTICULARS
**THE DIAMOND DRILL CARBON CO.**
PARK ROW, NEW YORK, N.Y. CABLE ADDRESS, CREDOTAN, N.Y.


McCULLOCH COUNTY—Roth & Faurot, Valera, M. C. Smith 1, Lockhart sur, 2000 ft from w and 5760 ft from s line.

ORANGE COUNTY — Sun Oil Co., Beaumont, C. L. Brown 6, B. Garner sur, 35 ft from w and 50 ft from s line.

PECOS COUNTY—McMan Oil & Gas Co., Tulsa, M. A. Smith 2, S 25, B 194, 2650 ft from n and 725 ft from w line. Gulf Prod. Co., Fort Worth, I. G. Yates 15, R.C.S.L. sur, 813 ft n of center of s line; 16, 730 ft from e and 840 ft from s line; M. A. Smith 11, S 28, B 194, GC&SF sur, 1325 ft from e and 890 ft from s line.

PALO PINTO COUNTY — Texas Pacific Coal & Oil Co., Ranger, E. V. Robinson 1, S 66, B 3, T&P sur, 150 ft from s and w lines.

PANOLA COUNTY — W. H. Littleton, Shreveport, La., E. Cromwell 1, W. V. Mann sur, 430 ft from w and 550 ft from s line.

RUNNELS COUNTY — Gibson & Johnson, Abilene, E. W. Rainwater 1, S 72, S. Miguel sur, 710 ft from s and e lines. Tilton & Nourse, Breckenridge, R. A. Cramer 1, No. 2 B. W. Taylor sur, 200 ft from n and 600 ft from w line.

REEVES COUNTY—Lyles & Eastland Oil Co., Fort Worth, R. F. Campbell 1, S 43, B 59, School sur, 660 ft from e and 150 ft from s line.

SHACKELFORD COUNTY—Roeser & Pendleton, Inc., Fort Worth, Cook C-9, S 60, E. T. Ry. sur, 489 ft from s and 1050 ft from w line; Cook A74, S 60, E. T. Ry. sur, 888 ft from n and 1734 ft from e line; A75, 993 ft from e and 450 ft from e line; A7, S 61, 150 ft from s and e lines. P. S. Kendrick, Albany, Broyles 1, S 70, L.A.L. sur, 800 ft from n and 300 ft from e line. R. W. Mancill, Cisco, V. Palm 1, S 44, Blind Asy. sur, 450 ft from e and 150 ft from s line. S. A. Hopkins, Cisco, L. E. Pritchard 9, S 17, B 9, Univ. Lands sur, 205 ft s of No. 4. St. Marys Oil & Gas Co., Moran, R. L. Carter 6, S 70, L.A.L. sur, 300 ft nw of No. 2.

SCURRY COUNTY—Mims & Scarbrough, San Angelo, J. J. Koonsman 1, S 216, B 2, H&TC sur, 1320 ft e of center of w line.

SAN PATRICIO COUNTY — Spencer & Rhodes, Fort Worth, J. M. Bennett 1, A. S. Taft, 800 ft from s and w lines.

UPTON COUNTY—Buell & Hagan, San Angelo, J. W. Robbins 1, S 2, R. T. Co. sur, se corner.

WICHITA COUNTY—Lackey & Bourban Royalty Co., Dallas, S. R. Mundon 14, B 33 J. M. McCool sur, 150 ft from e and 400 ft from s line. Holbrook & Woods, Wichita Falls, Kemp & Kempner 23, B 82, W.V.F.L. sur, 116 ft n of No. 12. King Royalty Co., Wichita Falls, J. W. Ferguson 17, J. W. Robertson sur, 1050 ft from w and 317 ft from s line. Ryan Consolidated Pet. Corp., Bartlesville, Okla., G. Nance 97, S. O. Fowler sur, 870 ft from n and 1250 ft from e line. Grayce Oil Co., Wichita Falls, W. W. Overby 8, N. B. Balch sur, 150 ft s of No. 5. Magnolia Pet. Co., Dallas, J. A. Kemp 3, B 27 J. A. Kemp sur, 150 ft from n and e lines. O. T. Aile, Wichita Falls, T. W. Roberts 5, S 20 H&GN sur, 300 ft e of No. 4. Hammon & Garrett, Wichita Falls, S. H. McCarty 2, W. R. Eaves sur, 300 ft se of No. 1. W. H. Hammon, Wichita Falls, T. F. Mitchell 3, J. T. Lewis sur, 345 ft s of No. 2. R. N. Hamilton, Wichita Falls, J. Moore 1, S 1 BBB &C sur, 150 ft from n and 200 ft from w line. C. W. Clark, Wichita Falls, Blair & Kemp 1, B 26 M. Roberts sur, 150 ft from n and 1205 ft from e line. W. B. Omohundro, Wichita Falls, D. R. Pace 46, R. J. Scott sur. Texas Co., Wichita Falls, Waggoner Bros., B 3, GC&SF sur, 965 ft from w and 185 ft from s line. Magnolia Pet. Co., Dallas, H. Reilly 140, L. C. Dennison sur, 500 ft n of No. 133.

WILBARGER COUNTY—Texas Co., Wichita Falls, W. T. Waggoner 358, S 33, B 4, H&TC sur se corner; W. T. Waggoner E-7, S 25, B 4, H&TC sur, 205 ft from n and e lines. Martin & Hamilton, Wichita Falls, W. T. Waggoner B6, S 5, B 5, H&TC sur, 340 ft w of No. 5. Jno. O'Neil, Wichita Falls, W. T. Waggoner 1, S 30, B 4, H&TC sur, 150 ft from sand e lines. J. B. Baker Jr., Wichita Falls, W. T. Wagganer 3C, G. Butler sur, 300 ft n of No. 2. J. B. Baker Jr., Wichita Falls, W. T. Waggoner 1C, G. Butler sur, 150 ft from n and w lines; 2C, 1470 ft from n and 150 ft from

## Every Sale Makes a Friend

Steelex, a packaged ball and seat, designed for use where excessive sand is present is the biggest selling ball and seat on the market—because every sale makes a friend. Consult your dealer.

**The Chas. N. Hough Manufacturing Co.**
Franklin, Penna.

*Products That Cut Down Your Underground Overhead*

## *A Modern Publishing Establishment -*

Our equipment is especially adapted to the publishing of books on petroleum, catalogues, oil company house organs, booklets, etc.

*Give us an opportunity to figure on your next printing job*

The Gulf Publishing Company
3301 *Buffalo Drive*
Houston, Texas

# GRAND MASTERS

When the American Petroleum Institute selected Pratt & Whitney to make the Grand Master Gages which are destined to standardize the tools of the oil industry the choice was not a haphazard one. Those master gages have to be right. They are difficult to make, and only the finest workmanship will be accepted by the Institute. The A. P. I. monogram on P & W gauges means that the American Petroleum Institute is certain that those gages are the best to be had anywhere in the world.

The successful manufacture of either master or working gages demands the extensive facilities of the gage specialist. Such work is very different from usual machine shop practice, and requires specially trained workmen. There must be delicate and sensitive measuring devices, and the means of reproducing the accuracy of those measuring machines in metal. There must be laboratories where constant metallurgical and chemical supervision of steel is maintained, and extensive heat treating equipment to characterize that steel. Back of all this there must be experience and real engineering knowledge, not only of gages, but of the work those gages must do.

The Pratt & Whitney gage organization, backed by over 60 years of gage making experience, has all the necessary facilities for making the finest of gages. If you manufacture equipment where such gages are used, or if you need them to check equipment purchased or repaired, get in touch with Pratt & Whitney Company. It will pay you to use gages which are endorsed officially by the American Petroleum Institute.

PRATT & WHITNEY CO.
*Hartford, Connecticut*
Division NILES-BEMENT-POND COMPANY

*Pratt & Whitney Oil Country gages include:*
Plain and Upset Oil Well Tubing Gages
Interior Upset Drill Pipe Gages
Cable Drilling Tool Joint Gages
Plain and Upset Casing Gages
Rotary Taper Joint Gages, Line Pipe Gages
Sucker Rod Gages, Fishtail Bit Gages
Write for information

# PRATT & WHITNEY

Serving
the
Oil
Industry
in
the
Mid-Continent
field

THE
FIRST
NATIONAL
BANK
OF TULSA

"Tulsa's Oldest Bank"

e line. I. E. Silkwood, Wichita Falls, Harrold Pet. Co. 1, S 25, B 13, H&TC sur, 150 ft from s and w lines. Texas Co., Wichita Falls, W. T. Waggoner 1, S 1, SP Ry sur, center. H. R. Faubion, Electra, W. T. Waggoner 1, S 6, B 17, H&TC sur, center. E. B. Lawson, Tulsa, Waggoner 6, S 30, B 4, H&TC sur, 175 ft from e and 200 ft from s line.

WINKLER COUNTY— Roxana Pet. Corp. and Texas Co., Wichita Falls, T. G. Hendrick F5, S 46, B 26, 440 ft from w and 1320 ft from s line; T. G. Hendrick B4, S 40, B 26, 2200 ft from n and 330 ft from e line; B5, 440 ft from n and 330 ft from e line; T. G. Hendrick C6, S 40, 330 ft from e and 440 ft from s line; D4, 330 ft from w and 1320 ft from s line; D5, 330 ft from e and 1320 ft from s line; D6, 440 ft from n and 330 ft from e line; T. G. Hendrick E2, S 39, 330 ftfrom n and w lines; T. G. Hendrick GH6, S 45, 440 ft from n and 330 ft from e line. Landreth Prod. Corp., Breckenridge, I. Hendrick A8A, S 29, B B5, 1320 ft from w and 1226 ft from s line; I. Hendrick B1A, S 40, B 40, 440 ft from n and 405 ft from w line. Cranfill & Reynolds, Cisco, I. Hendricks E1, S 33, B 26, 330 ft from s and w lines.

WEBB COUNTY—Magnolia Pet. Co., Dallas, M. Valdez 6, S 754, 330 ft n of No. 4; H. C. Yeager 5, Las Animas sur, 300 ft w of No. 2; Bruni 6, S 65, A. Arriba sur, 300 ft w of No. 2. Houston Oil Co., Houston, R. Benavides D8, S 753, B 12, 666 ft w of center of e line; D7, 150 ft w of center of e line; E1, S 753, B 11, 160 ft from s and e lines. Kepley Prod. Co., Laredo, Puig 2, B 105, Albercas sur. Cole Pet. Co., Laredo, R. Benavides 62, S 412, B 3, 160 ft from n and 760 ft from e line; 63, 160 ft from n and 1120 ft from e line. O. W. Killam, Laredo, A. M. Bruni 16, B 64, Arriba sur, 150 ft from s and w lines; 18, B 57, 150 ft from w and 1070 ft from s line.

WHARTON COUNTY—J. S. Abercrombie Houston, Woytek 6, S. F. Austin sur, 150 ft nw of No. 4. Weed-Gayle Oil Co., Beaumont, S. L. Bay 22, S. F. Austin sur, 130 ft from nw and 570 ft from sw line.

WARD COUNTY—J. F. Shipley, Wichita Falls, S. F. Hazlett 1, S 17, B 5, H&TC sur, 330 ft from n and w lines.

WHEELER COUNTY—Fred Massey, Shamrock, M. Brown 1, S 33, B 23, H&GN sur, 220 ft from n and w lines. J. B. Clark, Shamrock, M. S. Purcell 1-A, S 22, B 17, H&GN sur, 660 ft from s and e lines.

YOUNG COUNTY—Sun Oil Co., Dallas, M. E. Davis 2, S. D. Davis sur, 860 ft from sw and 250 ft from se line.

ZAPATA COUNTY—W. R. Duke, Wichita Falls, J. M. G. Martinez 2B, B 17, C. Redondo sur, 330 ft from sw and 395 ft from se line.

## CALIFORNIA

HUNTINGTON BEACH—Sam N. Lewis, Ivan 1, 10-6-11.

KERN COUNTY—Milham Exploration Co., Page 1, 6-28-23, S. A. Delzel, No. 1, 4-26-27. Famosa Oil Co., Mattei 1, 34-27-26.

KERN RIVER—Standard Oil Co., Kern Co. Lease No. 5, 18-29-28.

LONG BEACH—Dabney-Johnston Oil Corp., No. 16, 24-4-13; No. 17, 24-4-13. Signal Syndicate No. 4, No. 5-A, 19-4-12; No. 10, 29-4-12. Tom J. Cannon, Harriman Jones 3, 29-4-12. The Texas Co., Harlow 12, 19-4-12.

LOS ANGELES COUNTY—D. H. Wood, No. 2, 13-7-10.

MIDWAY—Union Oil Co., W. P. 1, 27-32-23.

MT. POSO—Berry Holding Co., Logan 1, 11-27-28.

PIRU—Temescal Pet. Co., Temescal 5, 3-4-18.

RICHFIELD—Superior Oil Co., Pyne 1, 33-3-9.

SEAL BEACH—Marland Oil Co., Bixby 23, 11-5-12.

SESPE—White Star Oil Co., No. 21, 33-5-19.

## LOUISIANA

BOSSIER PARISH—Arkansas Nat. Gas Co., J. H. Van Hoose 4-5, 31-16n-11w, 1100 ft s and 660 ft e of nw cor of sec. Morgan Oil Co., Smith 1, 26-19n-11w, 200 ft s and 200 ft w of ne corn of nw¼ of nw¼.

CAMERON PARISH—The Pure Oil Co., Sweet Lake 6, 12-13s-8w, 2080 ft sw from No. 5 on s line of section 500 ft from w line of sec.

DE SOTO PARISH—R. O. Roy, Jessie Ful-

Sol-Ray

Boiler Scale
SOLVENT

Dissolves hardest scale—Prevents scale forming on tubes and side walls of boiler—protects metal indefinitely.

Results Are
GUARANTEED

Write today for plant analysis Record. Plant water tests made free upon request.

*Manufacturers of Acids for Tool Fishing and Cleaning out Wells.*

Ward Chemical
Company

*"Heavy Chemicals for the Oil Industry"*

TULSA, OKLAHOMA

Phone 2-1877

*Stocks Carried at*
Wichita Falls, Texas

# "STURDYBILT" SECTIONAL HOUSES

## *Save Money for the Oil Industry with an Actual 100 Per Cent Salvage Value*

"STURDYBILT" SECTIONAL HOUSES are a realization of the Oil Industry's need for substantial housing facilities at low cost of initial construction and high salvage value.

"STURDYBILT" SECTIONAL HOUSES, adaptable to the peculiar needs of the Oil Industry for oil field lease, pipe line station or refinery use, are designed to afford the utmost in housing accommodations as well as low initial cost, quick construction and 100 PER CENT SALVAGE VALUE.

*No. 413. Five-room "Sturdybilt" residence*

*No. 304. A "Sturdybilt" field office*

*No. 502. Five-room "Sturdybilt" lease house*

*Right—No. 504. Six-room "Sturdybilt" residence*

*Left—No. 202. Two-room "Sturdybilt" lease office*

*No. 411. Four-room "Sturdybilt" lease house with screened porch*

*No. 801 "Sturdybilt" bunk house and dining hall*

*No. 51. "Sturdybilt" two-car garage*

It is conservatively estimated that in the Mid-Continent field alone the Oil Industry has a "dead" investment of well over a Million Dollars in standard constructed houses which could have been reclaimed had "STURDYBILT" SECTIONAL HOUSES been used instead.

For Seven Years "STURDYBILT" SECTIONAL HOUSES have been the leader in section-built houses for Oil Industry usage . . . their comparative value will endure over all other specifications with their actual 100 PER CENT SALVAGE VALUE against the low or absolute lack of salvage value of other types of oil field housing construction.

*Descriptive Booklet on Request*

**SOUTHERN MILL & MFG. CO.**
*Manufacturers of "Sturdybilt" Sectional Houses*
TULSA, OKLAHOMA

# IVERSON

—RELIABILITY—

Reliable tools and repairs are paramount essentials to successful drilling. A plugged well from a fishing job is a total loss. Avoid the hazards of fishing by using the best tools kept in perfect repair by reliable and expert mechanics.

Overcome your fishing problems quickly at less cost by allowing us to serve you. We specialize in fishing tool rentals with day and nite service.

**SEE US FOR**

FISHING TOOL RENTALS
GENERAL REPAIRS
BLACKSMITHING
MACHINING
OIL WELL TOOLS
WIRE LINES
CORDAGE
SPANG JARS

AT

**ARTESIA, N. M.**
**BORGER, TEXAS**
**IRAAN, TEXAS**
**WINK, TEXAS**
**TULSA, OKLA.**
**OKMULGEE, OKLA.**

**Iverson Tool Co.**

TULSA, OKLA.

40702 Phones 42608


ler 1, 6-13n-13w, 200 ft n and 200 ft w of se cor nw¼ of SE¼.

GRANT PARISH—A. P. Garland & L. C. Swope, L. C. Swope 1, 18-9n-1e, 280 ft s and 110 ft w of ne cor SE¼ of se¼.

LA SALLE PARISH—Tunica Pet. Co., L. & A. Oil Co. 46, 17-7n-2e, 300 ft n and 300 ft e of center of section. Tunica Pet. Co., L. & A. Oil Co. 45, 20-7n-2e, 300 ft n and 300 ft e of center of nw¼ of section.

MOREHOUSE PARISH—Natural Gas Prod. Co. of La., Patton 1, 12-20n-4e, 1509 ft s and 1050 ft e of nw corner of section.

WEBSTER PARISH—Northwest La. Gas Co., Inc., Pinewoods Lbr Co. 7, 33-23n-11w, 1950 ft n and 3760 ft w of se corner of section.

## Union Net Greater

Los Angeles—Although the gross profit of the Union Oil Company during the first half of 1928 was almost $100,000 less than the same period in 1927, the net profit was about $200,000 greater, totaling $5,800,000, as compared with about $5,600,000 during the same period last year. The provision for depreciation, depletion and drilling expenditures was much smaller and accounted for the unusually good showing. The much smaller depreciation provision was caused by the smaller production. Total sales amounted to $40,100,000, an increase of $2,000,000 over the same period last year. The regular quarterly dividend of 50 cents was declared, payable August 10, to stockholders of record at the close of business July 9.

## Drumright

Tulsa. — Recent wells completed in the Old Drumright field, notably one brought in over the past week-end, are serving to attract much attention to this area of comparatively small pumpers. Shaffer Oil & Refining Company's Cain 4-A, located in the northeast of the southeast of Section 18-17-7, made 940 barrels July 8 from sand at 2832-47 feet after being shot with 10 quarts.

Gibson & Becker have a 910-barrel producer in Tiger 3, in the northwest of the southwest of Section 17-17-7, after shooting late last week. Sand was encountered in this well several weeks ago at 2785-2817 feet for a 525-barrel well. Production had declined 50 barrels when the shot doubled the output last week.

---

**Geo. A. Henshaw, Jr.**, president of the Henshaw Oil Corporation, with headquarters at San Angelo, Texas, is recovering from a serious operation recently at a hospital in New Orleans.

---

**J. S. Ross**, who has been in charge of the U. S. Geological Survey station at Salt Creek, Wyoming, has been transferred to the Dallas district office, but has been located temporarily at Shreveport to make a study of conditions in the Cotton Valley field, Louisiana.

## Characteristics of Oil from Little Seminole

Washington.—A typical analysis of petroleum produced in the Little Seminole field, Muskogee County, Oklahoma, has been made public by the United States Bureau of Mines, Department of Commerce, which is studying the characteristics of crude oils from the different fields of the United States and other countries.

The Little Seminole oil field is located about four miles southeast of Muskogee, Oklahoma. Its discovery was almost accidental, as the oil is coming from a sand that has been believed dry for the past 25 years. The discovery well, drilled to test the Timber Ridge sand ordinarily occurring at about 900 feet, was plugged back and when finally shot at 525 feet on December 13, 1927, in the Hale sand, made 25 barrels per day. The average initial yield from wells is approximately 25 barrels per day, although one well is reported as producing 450 barrels the first day, and some other wells had initial production as high as 100 barrels per day. The total proven area is approximately five acres and the field production is, of course, small. The chief interest is the discovery of the field in territory that supposedly had been thoroughly explored years ago. The crude itself, like some other crudes from this part of Oklahoma, is a paraffin base oil. When viewed in a standard sample bottle the oil is light red in color with the greenish fluorescence characteristic of crude oil.

A typical analysis is as follows:

Oklahoma
Hale Sand
Specific gravity, 0.805
Per cent sulphur, less than 0.1
Saybolt Universal viscosity at 70°F., 38 sec
Saybolt Universal viscosity at 100°F., 36 sec

Muskogee County
Well No. 1
A. P. I. gravity, 44.3°
Per cent water, nil
Pour point—Below 5°F.
Color — 5+

| | Per Cent. | Sp. Gr. | °A. P. I. | Visc. |
|---|---|---|---|---|
| Light gasoline | 12.5 | 0.684 | 75.4 | |
| Total gasoline and naphtha | 38.5 | 0.735 | 61.0 | |
| Kerosene | 18.7 | 0.812 | 42.8 | |
| Gas oil | 8.8 | 0.837-0.848 | 37.6-35.4 | |
| Nonviscous lubricating distillate | 10.2 | 0.848-0.867 | 35.4-31.7 | 50-100 |
| Medium lubricating distillate | 7.1 | 0.867-0.879 | 31.7-29.5 | 100-200 |
| Viscous lubricating distillate | 0.0 | ..... | ..... | Above 200 |
| Distillation loss | 0.5 | .... | .... | |
| Residuum | 16.2 | 0.907 | 24.5 | |
| Distillation loss | 0.5 | .... | .... | |

# EASTLAND OIL CO.

*Producers and Contractors*

Petroleum Building

FORT WORTH, TEXAS



*"The Strongest Geared Power for Its Weight in the World"*

ALL STEEL HAND HOIST
SEATTLE, U.S.A.

**When there's an Emergency Lift, or Pull, this Hoist is on Duty in a jiffy.**

It's a great satisfaction to get the B. B. Bros. Hand Hoist into quick action. Any load up to five tons responds easily to its abundant power.

Weight 110 lbs.

Capacity FIVE TON STRAIGHT LINE

Size 16x17x13" High

Two Speeds 4 to 1 24 to 1

POSITIVE INTERNAL BRAKE

Construction Eight Pieces Electrical Steel Without Keys or Setscrews

PRICE **$80**

Steel Tail Hold Yoke $4 Extra. Truck Attachment Plate, $10 Extra.

Sold by
**The National Supply Companies**

# Buckeye the ditcher built by oil men!

When you have pipe lines to lay, a Buckeye will cut the ditch at the rate of a mile or more per day in any reasonable digging.

Built to the specifications of the oil world's leading engineers and contractors, Buckeye continues to be "the *only* ditcher that will meet *all* oil field requirements."

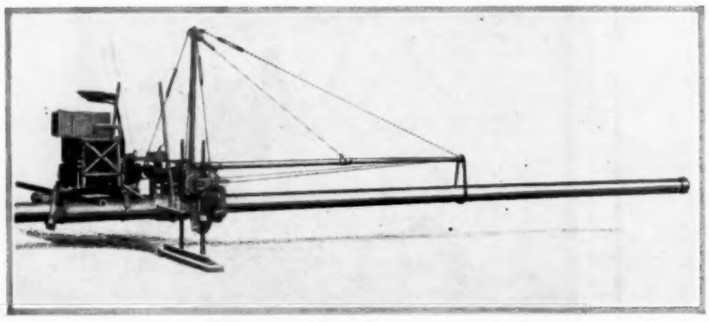
Model 32 retains all of the old favorite Buckeye working features—and embodies many exclusive new ones. No other pipe-line ditcher offers these profitable operating advantages: Practically *all-transmission* control; power steering; multiplied digging speeds—18" to 19' per minute; 2 digging wheel speeds; Alligator traction brakes, permitting operation on steep grades; and heavy duty industrial motor.

Write for complete information and price.

*The* Buckeye
Traction Ditcher Company
Findlay, - - - - - - - - Ohio

*There's a Buckeye Sales and Service Office near You*

*for over thirty years* Buckeye



*Photograph showing 4 and 6 inch machine laying 6 inch pipe. This is NEW MODEL, light weight machine. It will lay 4 and 6 inch pipe perfectly.*

**One of our larger machines has record of laying over three miles of 8 inch pipe in one day. Another laid 8000 feet of 10-inch pipe and another laid 7000 feet of 12-inch pipe in one day's run. The work was perfect. There were no leaks or breaks in lines.**

**Machines for laying all sizes from four to twenve inch pipe for sale or lease.**

*Write for literature.*

**California Pipe Line Machine Company**

KANSAS CITY, MO.

2710 East 14th Street J. J. Mahoney, Pres.

RED BANK OIL COMPANY

*Oil Operators*

306 Castle Bldg.
Tulsa, Oklahoma

## Richfield Offer

Los Angeles—Formal announcement has been made by the Richfield Oil Company that it will exchange one share of Richfield common stock for three shares of Pan-American Western Petroleum Company Class "B" stock, with the provision that if the decision affecting the Elk Hills Naval Reserve is entirely favorable an additional share of Richfield stock will be given for each six shares of Pan-American Class "B" stock surrendered. In the latter case, the exchange is equivalent to one share of Richfield for two shares of Pan-Western "B." In the event of a compromise or a decision making it necessary to return only a part of the amount received for oil taken from the Naval Reserve, additional shares will be issued in the ratio of amount saved from approximately $5,000,000, which has been set aside pending the outcome of the case. Fiscal agents have been authorized to make the transfer immediately on the one-for three basis. The offer became effective on July 11 and will expire September 11, or later, if Richfield sees fit. In a letter to Pan-American Western "B" stockholders, President Talbot of Richfield explained the benefits that should result from the exchange. He pointed out that Richfield is now earning about $5 per share and that the stock has a value of more than $75 per share. He further showed that in the event of consolidation, the new combination will have a production ranging from 55,000 to 65,000 barrels, a refinery output of 140,000 barrels, a 1000-mile pipe line system, 9000 dealers handling Richfield products and 173 service stations.

## Scouts Bulletin

Tulsa.—The Mid-Continent Oil Scouts and Land Men's Association has recently had published a 36-page bulletin carrying a resume of work done by the association since reorganization late last year. Essentially it covers talks made and papers presented at the annual convention of the organization held at Guthrie, Oklahoma, April 27-28 of this year.

The bulletin is to be published by the association annually for the purpose of outlining the work of members and to further the cause of the scouts and land men toward their motto, "Efficient Co-operation."

The initial bulletin carries the following papers, most of which are digests of the various outstanding fields in Oklahoma: "Government Invasion of Property Rights," by Judge James A. Veasey; "Co-operation in Scouting, Land and Geological Departments," by R. S. McFarland; "Scouting," by Rex L. Dawson, chairman of the board of directors of the association; "Repressuring an Oil Sand," by Dr. A. F. Melcher; "Seminole," by R. T. Miller; "Review of Seminole and Shawnee Districts," by Ed George; "Core Drills and Geophysical Instruments," by A. E. Taft; "Osage County", by J. R. Craun and J. P. Moroney; "Okmulgee District," by C. W. Michaels; "The Cush-

# SERVING WEST TEXAS
## THRU SLEEPERS

Actual Overnight Service-Abilene Sweetwater-Midland San Angelo-Lubbock Plainview-Amarillo.

THE TEXAS AND PACIFIC RAILWAY

Also High Class St. Louis Memphis and Los Angeles Service

| Read Down | Read Up |
|---|---|
| 8:20 P.M. Lv. Dallas | Ar. 8:10 A.M. |
| 9:20 P.M. Lv Ft. Worth | Ar. 7:10 A.M. |
| 7:00 A.M. Ar. San Angelo | Lv. 7:00 P.M. |
| 8:00 A.M. Ar. Lubbock | Lv. 9:40 P.M. |
| 9:33 A.M. Ar. Plainview | Lv. 8:20 P.M. |
| 11:30 A.M. Ar. Amarillo | Lv. 6:35 P.M. |
| 4:55 A.M. Ar. Big Spring | Lv. 11:45 P.M. |
| 6:17 A.M. Ar. Midland | Lv. 10:19 P.M. |
| 6:53 A.M. Ar. Odessa | Lv. 9:43 P.M. |
| 8:30 A.M. Ar. Pyote | Lv. 8:13 P.M. |
| 9:10 A.M. Ar. Pecos | Lv. 7:30 P.M. |
| 3:15 P.M. Ar. El Paso | Lv. 10:15 A.M. |

Abilene Set-out Sleeper leaves Dallas 8:20 P. M. Ft. Worth 9:20 P. M.

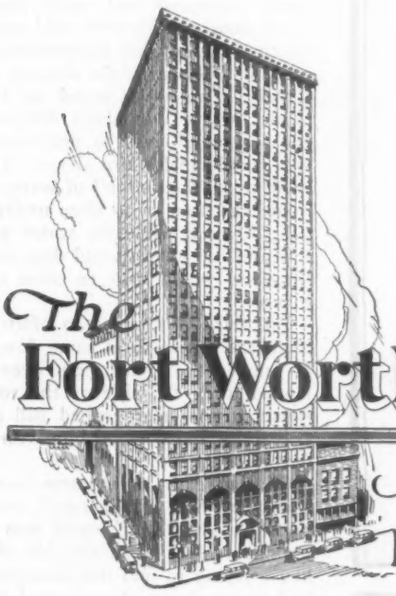
Sweetwater Set-out Sleeper leaves Dallas 9:00 P. M. Ft. Worth 10:30 P. M.

The Sunshine Special — The Texan

| WEST BOUND | EAST BOUND |
|---|---|
| Mo. 6:45 P.M. Lv. St. Louis | Ar. 8:20 A.M. Th. |
| Mo. 11:25 P.M. Lv. Memphis | Ar. 7:00 A.M. Th. |
| Tu. 1:15 P.M. Lv. Dallas | Ar. 1:55 P.M. We. |
| Tu. 2:40 P.M. Lv. Ft. Worth | Ar. 12:50 P.M. We. |
| We. 12:07 A.M. Ar. Midland Mt. | Lv. 4:39 A.M. We. Mt. |
| We. 8:30 A.M. Ar. El Paso Mt. | Lv. 7:30 P.M. Tu. Mt. |
| (Train No. 103) *(Southern Pacific)* | Train No. 104 |
| We. 9:55 A.M. Lv. El Paso | Ar. 6:45 P.M. Tu. |
| Th. 10:25 A.M. Ar. Los Angeles | Lv. 3:00 P.M. Mo. |

United States Depositary

The ever increasing number of oil accounts handled by this bank shows as nothing else could the confidence of West Texas oil men in its service.



*Officers:*

K. M. VAN ZANDT, *President*

| | | |
|---|---|---|
| R. E. HARDING *Vice-President* | R. W. FENDER *Vice-President* | D. G. WEILER *Asst. Cashier* |
| E. E. BEWLEY *Vice-President* | GUY PRICE *Vice-President* | W. E. WELCH *Asst. Cashier* |
| W. M. MASSIE *Vice-President* | ELMER RENFRO *Cashier* | C. W. BRASELTON *Asst. Cashier* |
| B. H. MARTIN *Vice-President* | K. V. JENNINGS *Asst. Vice-President* | W. B. CAYCE *Asst. Cashier* |
| R. C. HEARNE *Vice-President* | E. P. VAN ZANDT *Asst. Vice-President* | S. O. HARTMAN *Asst. Cashier* |

CAPITAL $2,000,000.00 SURPLUS $1,000,000.00

The Fort Worth National Bank

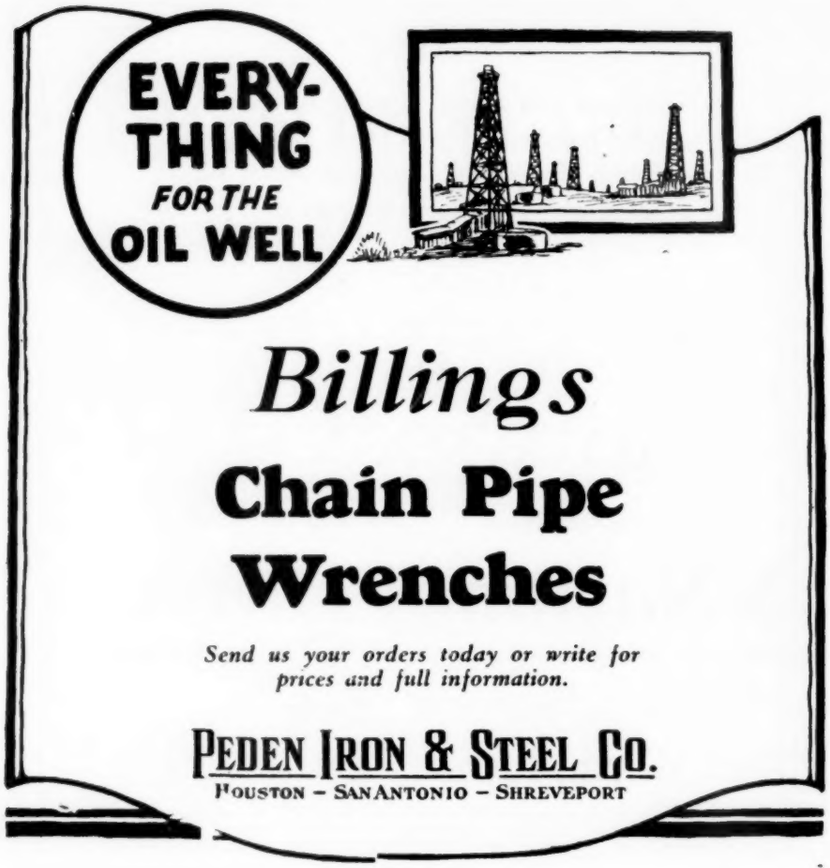
ESTABLISHED 1873

Main at Seventh

Fort Worth, Texas

*Say you saw it in The OIL WEEKLY*

WRIGHT
MANUFACTURING CO.
LISBON, OHIO U.S.A.
MODEL
Here it is
Whatever You Demand in a Hoist
Higher speed, longer life, easier action, greater factor of safety—the Wright High Speed Hoist has it.
Let us tell you all about it
WRIGHT MANUFACTURING CO.
Bridgeport, Conn.
WRIGHT
HIGH SPEED HOIST


EVERY-THING FOR THE OIL WELL
Billings
Chain Pipe Wrenches
Send us your orders today or write for prices and full information.
PEDEN IRON & STEEL CO.
HOUSTON – SAN ANTONIO – SHREVEPORT

ing Area," by M. P. Norwood; "Northwestern Oklahoma," by L. A. Adams; "The Bristow-Slick Area," by Robert W. Walls; "Burlesquing The Weekly Letter," by D. P. Marshall; and comment on the convention at Guthrie.

The bulletin represents an excellent piece of work on the part of the association, and fine co-operation from the members.

## Flowing By Heads

*By* ARTHUR KNAPP

A series of short stories founded on facts and built around the oil country and its people

### WHEN KELLY ALMOST DIED

KELLY was stabber for a pipe-line gang running a line out of Sour Lake. This was at the time when a mile of pipe made a good day's work and a keg of real beer was usually tapped at the end of each mile. Kelly always did the honors at the keg. Some of the gang said that he had been born with a bung-starter in each hand.

On this particular day, Kelly lifted his glass to all mule-skinners, gang-pushers and time-keepers, the toast not being particularly complimentary. Suddenly his face went white, his arm slowly sank, his knees shook and moisture appeared on his brow. As the boys stared at him in amazement, Kelly amanaged to articulate, "It's come boys. I always knew I'd go out that way."

He clutched at his heart—started—then blushed a deep crimson as he pulled a bull-dog pipe out of his shirt pocket. Kelly thought that he was dying of heart failure and it was only the pipe burning a hole in his shirt.

* * *

### WILD BILL'S NIGHTMARE

THEY called him "Wild Bill" because he had the habit of arousing the bunkhouse in the middle of the night with a series of wild yells or some other outlandish and out-of-place noises. Even dousing him with cold water failed to cure him of his nightmares.

Wild Bill was night fireman in Goose Creek. The boiler stood on the shore, while the rig was about 300 feet out in the bay. Bill used to get lonesome and that would make him sleepy. It was his habit to fill the pot full of water up to the dome and then go to sleep under the barrel. After a while the water would run low and the steam would drop and one of the crew would have to come and rouse him up.

Bill tried this once too often, for one night the crown-sheet came down—fooey. It jumped the boiler right over Bill and landed it by the side of the road. The swish of the steam rolled Bill over several times and covered him with mud but did not hurt him a bit.

Of course the crew came running, expecting to find Bill in small, well-cooked pieces. What they found was a dazed fireman feeling along the side of the tool house trying to find the gauge-cocks. Bill had to be shown the wrecked boiler before he would believe that it was not another of his nightmares.

## Standard of the Oil Fields

Gottkool
Gott Water Can..
Clean-pure sparkling water ready to drink at all times. No matter where you are, the GOTT Water Can is health insurance.
Comes in 1½, 3, 5 and 10 gallon sizes. Your supply store has them.
H. P. GOTT MFG. CO.
WINFIELD, KANSAS
Gott
WATER CAN
PURE WATER

**The accepted standard for QUALITY SERVICE and LONG life**

no other than a Gott Water Can or Cooler will quite do...

## For Sale by Supply Stores in Every Field

# C. W. Webster's

## WEST TEXAS OIL AND GAS LEASES

12,000 Ac. Pd. up, Crockett Co.
6,000 Ac. Com., Yoakum Co.
6,500 Ac. Com., Cochran Co.
3,000 Ac. Com., Lea Co., N. M.
2,560 Ac. Com., Roosevelt Co., N. M.
⅞ Mineral Deeds.

10,000 Ac. Hudspeth Co., Texas, in North Central part, along Pasotex Pipe Line Co.'s trunk line.

15 Years in Texas.

References Mercantile Agencies
Any National Bank

## C. W. WEBSTER

PETROLEUM BUILDING FORT WORTH, TEXAS

**McCollum Exploration Company**

*Contracts taken for Seismograph Work*

UNITED STATES
5522 Connecticut Ave.,
WASHINGTON, D. C.

FOREIGN COUNTRIES
1211 Esperson Bldg.,
HOUSTON, TEXAS

*We specialize in*

OIL ROYALTIES

in West Texas

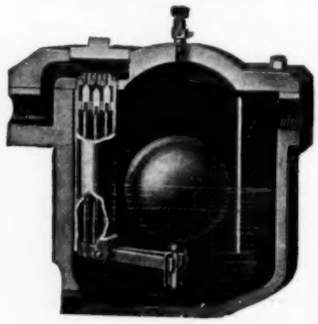
WALES & COMPANY

Dan Waggoner Building
Fort Worth, Texas

*"Say you saw it in The Oil Weekly"*

LELAND E. FISKE
*Certified Public Accountant (Indiana)*
VALUATION ENGINEER
216 Atlas Life Bldg.,
TULSA, OKLA.
*Specialist in Oil Property Taxation, Appraisal and Accounting*

**WRIGHT-AUSTIN**
***"Emergency"***
**High Pressure 3-valve Steam Trap**



*Pressures up to 250 lbs.*

One Valve after another goes into service as the amount of condensation requires—or all three Valves will open wide for "emergency" slugs—and will close steam tight accordingly.

LARGE AND COMPLETE STOCK ALWAYS ON HAND

**Maintenance Engineering Corporation**
W. J. Peddie, President
Tel. Preston 5580 P. O. Box 1402
HOUSTON, TEXAS

## Cities Service Adds New Compressor Equipment

Bartlesville, Okla. — Cities Service Gas Company, subsidiary of the Empire Companies, is completing installation of new auxiliary equipment at the Tallant, Oklahoma, compressor station. Two 190 horsepower Cooper twin gas engines driving two 120 k. w. 440-volt three-phase 60-cycle Electric Machinery Company generating units have been installed. New equipment has been installed in all pumps and compressors used for starting the engines, and a new circulating water pump house has been constructed.

New roads, sidewalks and fences have been built around the station, and four new 12-car garages have been built. All service lines to companies have been re-arranged.

The Tallant station has continued operating during this reconditioning program.

Cities Service Gas Company's Petrolia compressor station near Chanute, Kansas, is having installed a new 1000 horsepower Cooper unit which will raise the total capacity of the Petrolia station to 7,300 horsepower. Generating units, air compressors, circulating pumps and switch board at this station is also being equipped with new material.

## Empire Line Recondition Work Near Completion

Ponca City, Okla. — Empire Pipe Line Company's project of reconditioning its 38-mile eight-inch oil line from Winfield to Ponca City has been more than half completed, and officials of the company announce that the work will be finished in October. The company's Ponca City refinery is operating on Seminole instead of Kansas crude while this work is under way.

Empire Pipe Line Company has agreed to change the course of the line one and one-half miles around a residential section of Ponca City which has grown over the old right-of-way taken by the line when laid in 1917.

## Re-Roof Tanks

Bartlesville, Okla. — Empire Pipe Pipe Line Company has recently completed a tank re-roofing program on its Kansas tank farms. Nine 55,000-barrel tanks have been re-roofed within the past two months in Butler County.

Tanks to be re-roofed were pumped dry, had a side sheet removed on the bottom rim and cleaned of settlings with shovels. New steel plate roofs laid in and welded, making vapor proof tops, have been substituted for the old wooden roofs.

The re-roofing crew has been moved from Butler County, Kansas, to Healdton field, Oklahoma, where one tank will be re-roofed, and later will do this job on five tanks at Gainsville, Texas.

**Imperial Royalties Company**
Established April, 1920

Will pay the usual monthly dividend of 1½% on its $1.00 par Preferred shares on July 30th. This is Dividend No. 94 and makes a total of 161½% paid to Preferred shareholders. Also, the usual monthly dividend of 15 cents a share will be paid on its Class-A Preferred shares on July 30th.

E. S. Horn, H. O. Bland, J. E. Horn, Trustees
HUNT BLDG., TULSA, OKLA.

THE FT. WORTH LABORATORIES

Field Gas Testing. Analysis of oil field brines, gas minerals and oil. Sell Thermometers, Hydrometers and Laboratory Glassware

F. B. Porter, B. S., Ch. E., Pres.
R. H. Fash, B. S., Vice-President
828½ Monroe St. Ft. Worth, Tex.

MONEY to be made in cheap fee lands; large and small tracts, Southwest Texas, New Mexico. Also leases and royalties and production. Full information, no obligation. Central Texas Land and Developing Co., 1114 Fort Worth Nat'l Bldg., 2-3812.

PATENTS
Patents Obtained, Trade Marks, Patent Causes
JESSE R. STONE
Formerly Assistant Examiner United States Patent Office
Andrews, Streetman, Logue & Mobley
12th Floor Union N. Bk., Houston, Texas

Maurice Hirsch & Ben J. Brown
ATTORNEYS AT LAW
601-2-3 Goggan Bldg.
HOUSTON, TEXAS
Specializing in Oil Law and Land Law

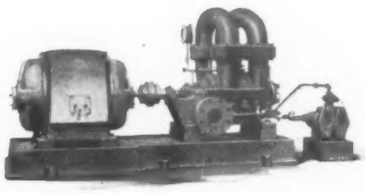
PATENTS
Patents Obtained and Trade Marks and Copyrights Registered
HARDWAY & CATHEY
428-29-30 Bankers Mortgage Bldg
Phone Preston 4790 Houston, Texas

JOHN F. WEINZIERL
CONSULTING GEOLOGIST
ADVISOR ON GEOPHYSICAL INSTRUMENTS
619 Petroleum Bldg., Houston, Texas

A Los Angeles patrolman had brought in a negro woman, somewhat the worse for wear, and the desk sergeant, with his very best scowl, roared:

"Liza, you've been brought in for intoxication."

"Dat's fine," beamed Liza. "Boy, you can start right now!"



*WORTHINGTON Magnolia-Type Centrifugal Oil-Line Pump, with capacity from 8,000 to 40,000 bbls. per day.*

**We have in stock, for immediate delivery from Dallas or Odessa**

the 3" Worthington Centrifugal Oil-line Pumps, with 125 H. P. motors, having capacities of from 8,000 to 15,000 barrels—and the 4" Pumps, with 250 H. P. motors, for capacities of from 18,000 to 40,000 barrels, against pipe-line pressures.

We design, install and equip complete Gas Compressor Stations—Diesel Engine Power Plants—Motor-driven or Diesel-driven Pipe-line Pumping Plants—Air and Gas-lift Installations, etc. Our Engineering Department is available at all times for consultation.

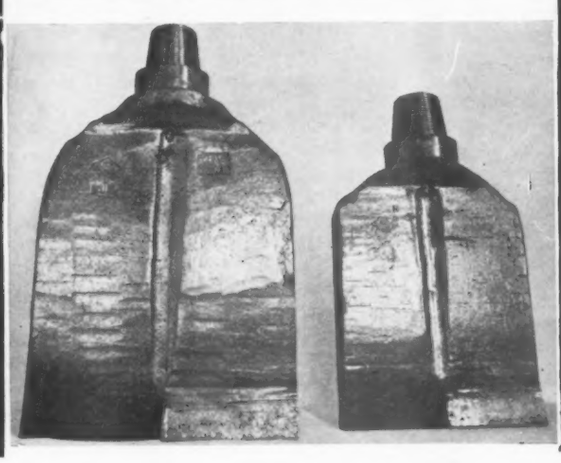
# A. M. LOCKETT & CO., Ltd.

*Contracting Mechanical Engineers*

NEW ORLEANS, Queen & Crescent Bldg. — HOUSTON, 1012 Electric Bldg. — DALLAS, 305 Magnolia Bldg. — SAN ANTONIO, 207 Gibbs Bldg.

GALVESTON, 414 Security Bldg. — ODESSA, First St. near Crane Ave. — AMARILLO, Amarillo Bldg.

# HEPPENSTALL DIAMOND "H" BIT AND JAR STEEL



Just as "sterling" designates the highest possible standard of quality on fine silverware so does the Diamond "H" trademark indicate the highest possible quality on your Bit and Jar Steel.

Made in small furnaces, absolute uniformity is the result. It is forged (not rolled) which gives every piece a tough textured steel grain unsurpassed for enduring strength.

For your protection and ours specify genuine Diamond "H" Bit and Jar Steel in your order.

**Heppenstall Forge & Knife Company**
Pittsburgh, Penna.
Fort Worth, Texas Office 1415 F & M Bank Bldg.

## *The Patent Situation on Sand Testing Tools*

It seems certain that the United States Patent Office will in the near future issue a patent on an application owned by Halliburton containing the following claim and several similar claims:

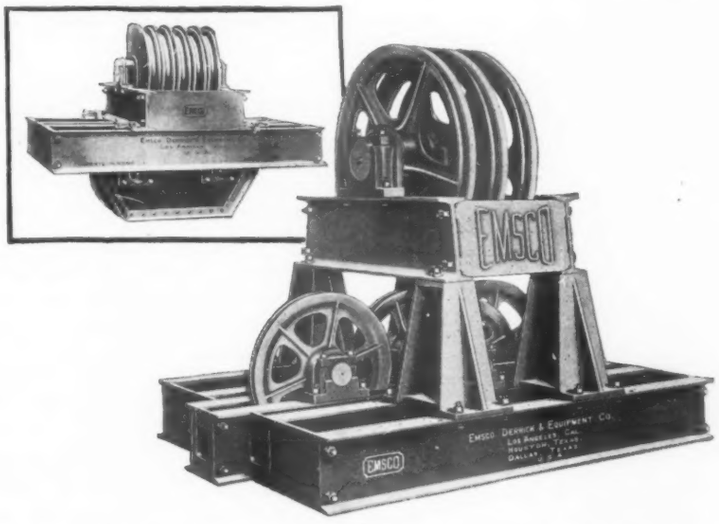
> "Apparatus for testing a well comprising a string of pipe to be lowered into the well, a packer carried by the pipe and means at the lower end of the pipe to receive a sample from the well including an inlet, and a valve for controlling the inlet, the valve being positively controlled by movement of the pipe to open and close the inlet while the packer is seated"

This advertisement is published in the interest of those operators contemplating the purchase of a device that will come within the above claim.

**ERLE P. HALLIBURTON COMPANY**
**DUNCAN, OKLAHOMA**

*Say you saw it in The OIL WEEKLY*

# NEW EQUIPMENT, CATALOGS, BULLETINS, BOOKS




*Emsco Type "G" Crown Block. Small cut shows the fundamental design of Emsco blocks which is retained in the New Type "G."*

## New Crown Block

**EMSCO DERRICK AND EQUIPMENT COMPANY**

Emsco Derrick and Equipment Company, Los Angeles, announces the new Type "G" crown block.

In this new block the casing line sheaves are of manganese steel, 46 inches in diameter, and with wire rope grooves ground to a finish. Heavy-duty roller bearings are used. There are fourteen one and one-fourth-inch diameter rollers in each of the large sheaves with a bearing length of six and seven-eighths inches; 12 one-inch diameter rollers in each of the smaller sheaves with a 5⅜-inch bearing length. Bronze cages retain the rollers and guarantee proper spacing. High pressure lubrication is provided throughout.

Sheaves are accurately lined up with those of the traveling block, permitting the block to be raised to maximum height. It is said that another contributing factor to the height to which the traveling block may be raised is the minimum flare of the lines.

Heavy I-beams compose the base and sturdy castings support the upper deck. Sheaves on the upper deck are mounted on a single shaft of hardened and ground alloy steel.

All boxes are bolted to the I-beams.

A feature of the outfit, according to its manufacturers, is the ease with which it may be assembled. The lower deck can be rapidly knocked down for ease in handling. The upper deck assembly may be hoisted as a unit through the water table, left suspended from the gin pole and then lowered into place after the lower-deck beams have been slid into place under it.

The block is adapted to four-, six-, eight- and 10-inch line reeving without shifting beams. Either three or four 46-inch casing line sheaves may be installed in the upper deck without changing the lower deck. The entire upper deck and casing line sheaves are easily removed when the well comes in, leaving only those needed in pumping.

The dead line and slowest lines are placed next to the finger-board so that the derrickman cannot possibly seize a high-speed line when attempting to swing the traveling block.

More information may be obtained from the company, by request.

## Oceco Tank Cleaner

**OIL CONSERVATION ENGINEERING COMPANY**

The Oceco Tank Cleaner now being introduced by the Oil Conservation Engineering Company, Cleveland, Ohio, is a new device recommended for cleaning bottom settlings from tanks. The cleaning is done from the outside of the tank by turning a crank.

This crank rotates a spiral gathering arm which carries the accumulation in the bottom of the tank towards the center where it is piled up over the intake of an outlet pipe. The pressure of the oil in the tank then forces the sludge out through the pipe. By slowly turning the crank the sludge is kept piled up until all has been forced out by the head of oil above it. It is said that good oil cannot break through until the sludge has been forced out.

In addition to the cleaning of the tank, it is claimed that the Oceco cleaner is used to good advantage when b. s. is to be treated chemically. For this purpose thorough mixing is accomplished by rotating the cleaner in the reverse direction while the chemical is being fed into the bottom of the tank. The good oil in the top of the tank is undisturbed by this method.

The cleaner is easily installed in either new or old tanks without skilled labor or special tools.

The cleaners are built for any size tanks but cannot be used where a tank has more than one roof support. If the center support is a ladder the lower end is cut off and fitted to rest on the cleaner hub.

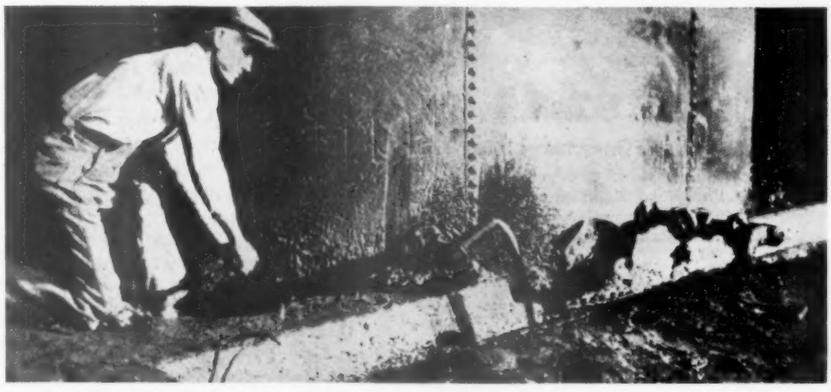
Additional information can be had from the Oil Conservation Engineering Company, 877 Addison Road, Cleveland, Ohio.

## Rotary Wall Hook

**BAKER CASING SHOE COMPANY**

The Baker Casing Shoe Company, Huntington Park, California, has recently placed on the market an improved model rotary expansion wall hook, replacing the original Baker Hydraulic rotary expansion wall hook.

In the improved wall hook, the hook arm is in a vertical extension of the body while going in and when the operation point in the hole is reached,



*Oceco Tank Cleaner in operation.*

# YOU *are the judge!*

*This is all we ask*—give a set of Shaffer Boiler Gauge Cocks a fair trial, they will sell themselves. That is the reason over 50,000 are in use throughout the world.

When Boiler Manufacturers use the Shaffer as standard equipment on all the new boilers such as the following:

OIL WELL
FARRAR & TREFTS
TITUSVILLE
KEWANEE
LUCEY
BRODERICK
DONOVAN

. . . . . *they MUST BE GOOD!* Good or bad water, it is all the same to a SHAFFER. Try a set today. Your supply store has them.

J. E. SHAFFER CO.,
316 Mid-Continent Bldg.
Tulsa, Okla.

**Price $2.25**

All Parts Are Interchangeable

Made in two sizes, ½ or ¾-inch. Furnished with special all-metal wheel. Extra wheels 25c each.

SHAFFER
*the Standard Boiler*
*Gauge Cock*

*Baker Rotary Expansion Wall Hook.*

starting the pump swings the hook arm out at right angles to the body and holds it there. At the same time a port is opened to allow circulation. The hook may then be used to straighten up the fish so that it can be recovered by an overshot or other fishing tool.

Once the fish is pulled away from the wall, the hook, is allowed to drop into its first vertical position by releasing the pump pressure. The tool can then be withdrawn with ease.

More information can be had by writing the manufacturer.

---

MacGregor Valve Company, St. Louis, Missouri, announces that J. W. Cliff has recently joined the company in the capacity of production manager. Mr. Cliff has had wide experience and had held important executive and engineering positions with such firms as the Power Accounting Company, Hyatt Roller Bearing Company, Wright-Martin Aircraft Company, Lehigh Accounting Company, Weston Instrument Company. During the past five years he has been shop superintendent for the Merco-Nordstrom Valve Company. Under his jurisdiction the MacGregor Valve Company is having machines installed for quantity production of MacGregor Rotary Valves.


## $3200.00 saved—plus 15 days of "flush"

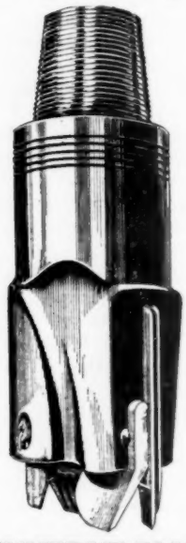
Nothing like knowing *real facts.* To determine drilling costs, with various tools, the Reese Drilling Company made one well in Seminole with rock cones. The bit cost was a fraction over $6,000.00 and it required 48 drilling days.

A direct off-set well was then drilled with K-P *Straight Hole* Bits. No other bit was used except the rock bit which run several times in the hardest rock formations. *The K-P Bit cost on this well was only* $2,800.00.

K-P *Straight Hole* Bits saved $3,200-.00 and *made the well in 33 drilling days*—but most important, the hole was *straight*—true to gauge—every foot of the way.

K-P
THE LINE OF LEAST RESISTANCE

**STRAIGHT HOLE**
**Rotary Drilling Bit**



KENNEDYE-PLUMB CORPORATION
Railway Exchange Bldg.,
ST. LOUIS, MO.

*Sold by every*
"Continental" — "National" — "Oil Well" Supply Company Branch Store

Second
National Bank

Houston, Texas

*"Growing with Houston"*

TYLER

**Boiler Tubes**

**Charcoal Iron**
for bad water conditions—

**Lapweld Steel**
for good water conditions—

**For long tube life.**

**The Tyler Tube & Pipe Co.**
Washington, Pa.

Texas Stock—Harrisburg Pipe and Pipe Bending Co., Houston, Texas

Oklahoma Stock—Harrisburg Supply Co., Tulsa, Oklahoma.



*For Strength and Uniformity Use*

The value of wire rope to the user is not in the price per foot, but is the number of days' service, or quantity of material hoisted. A trial of Wickwire rope will prove its value in service.

The Wickwire organization is at all times equipped with information and is only too willing to extend to the user its knowledge of wire rope characteristics. This service is offered without obligation.

We will be glad to send you our free catalog. It is an engineering handbook on wire rope.

WICKWIRE SPENCER STEEL CO.
*Home Office:* 39 E. 49th St., N. Y. City
*Branch Office:* 1310 The Philtower, Tulsa, Okla.

*Distributed by*
Murray Tool & Supply Co., Tulsa, Okla.
T. T. Word Supply Co., Houston, Texas
A. F. Keck & Co., Butler, Pa.

WICKWIRE SPENCER STEEL

**WICKWIRE SPENCER UNIFORM WIRE ROPE**
***tests better than A. P. I. specifications***

No. 9 of a series on the

FLUID PACKED PUMP

FPP

Reduce your shut-down time.

85% of the shut-down time on producing wells is due to pump troubles.

Fluid Packed Pumps reduce your shut-down time and increase your profits.

*West Texas Representative:*
*R. W. (Bill) Harr*
*P. O. Box 45*
McCamey, Texas

Fluid Packed Pumps are manufactured *only* by the Fluid Packed Pump Company of Los Nietos, California, and distributed in Texas exclusively by the

ROBERT J. MILLER COMPANY
HOUSTON TEXAS

# SQUEAKS FROM THE BULL WHEEL

Old Lady: "Son, can you direct me to the Peoples Savings Bank?"

Boy: "Yessum, for a quarter."

Old Lady: "Isn't that a mighty high pay, my boy?"

Boy: "No, ma'am not for a bank director."

---

Agnes: "Sally told me that you told her that secret I told you not to tell her."

Marie: "She's a mean thing! I told her not to tell you I told her."

Agnes: "Well, I told her I wouldn't tell you she told me, so don't tell her I did."

---

Mr. Newlywed: "This steak tasted queer."

Her: "I can't understand it, dear, I did burn it a little, but I rubbed vaseline on it right away.

---

Mother: If you get a job in the chorus, I hope you won't wear tights.

Daughter: Oh, but they don't wear them any more.

Mother: Well, I'm very much relieved to hear that.

---

Two Scotchmen took dinner together in a restaurant. After dinner the waiter brought the bill. The two sat and talked for a couple of hours, after which conversation failed, and they merely smoked in silence.

At one o'clock in the morning, one of them got up and telephoned to his wife, "Dinna wait up any longer for me, lass," he said; "it looks like a deadlock."

---

"Young lady, what is the name of the best cow in the country?"

"Magnesia."

"Magnesia? I never heard of her before."

"Sure you can buy her milk at any drug store."

---

"Who broke the window pane in your house?"

"Mother did, but it was father's fault. He ran in front of it."

---

Making First Selling Trip: "I'm er, ah, er, a little stiff from bowling."

"I don't care where you're from. What are you selling?"

---

"What did the burglar do when he found the lady in her bath?"

"He covered her with his revolver."

---

Parson Johnson—De choir will now sing, "I'm Glad Salvation's Free," while Deacon Ketcham passes de hat. De congregation will please 'member while salvation am free, we hab to pay de choir foh singin' about it. All please contribute accordin' to yo' means and not yo' meaness.

"I want four pounds of brown sugar, two boxes of raisins, and—"

"I'm sorry, but we're all out of yeast."

---

A Baltimore lawyer received the following letter from a client:

"Dear Sir: My boy got struck by an automobile, number 4872 6B. If the owner is rich, sue him at once. The boy wasn't bruised any, but on your notifying me that you have brought suit, I will hit him in two or three places with a hammer."

---

Little Freddy was preparing to go out calling with his mother. Suddenly he called to her in a rather startled voice:

"Mamma, is this bay rum in the brown bottle?"

"Gracious, no, dear! That's mucilage."

"Oh," said Freddy after a pause, "maybe that's why I can't get my hat off."

---

In Washington they tell the story of a golfing clergyman who had been beaten badly on the links by a parishioner thirty years his senior, and had returned to the clubhouse rather disgruntled.

"Cheer up," his opponent said. "Remember, you win at the finish. You'll probably be burying me some day."

"Even then," said the preacher, "it will be your hole."

---

"Chief," asked a visitor in Fort Mink, "can you tellum where I buy some of those Indian beadwork?"

"I got mine from a mail-order house house in Rochester, New York."

---

"I didn't mind your naming me Alasper Smith, mother, but why Alasper Y. Smith?

"Why, after Shakespeare's hero, of course—surely you know of Alasper Yorick!"

---

"That fellow sure made me sore. He said I was a regular Venus."

"You shouldnt' get sore at that. That's a mighty fine compliment."

"Say, you must think I don't know Venus is a city in Italy with all the sewers stopped up."

---

"That's our General Superintendent—son of the president—he began at the bottom and worked up—started in laying pipe line right after he left college."

"When was that?"

"Oh, he graduated two months ago."

---

"Psychologists tell us that a hysterical girl is most efficiently soothed by a firm kiss."

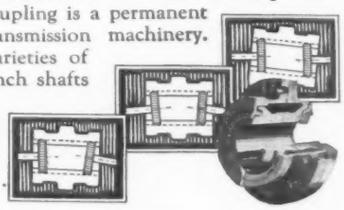
"The question now is, how to get them hysterical."

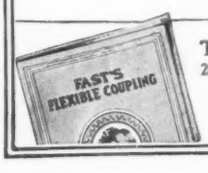
## Replacements Banished by FAST'S COUPLING

SHUT-DOWNS for replacing pins, bushings, springs, discs or grids in flexible couplings are a thing of the past—when you standardize on the coupling that has no flexible members.

Instead, in Fast's flexible coupling, two spur gears, one on each shaft end, are completely and continuously meshed in oil with the internal gears of a floating sleeve. The shafts and sleeve turn noiselessly as one unit, allowing free angular and lateral movement.

Oil between the gear teeth, under high centrifugal pressure, carries the load. There is no power loss and the coupling is a permanent part of the transmission machinery. Built for all varieties of service from 1-inch shafts on pumps and fans, up to huge steel mill reversing drives.



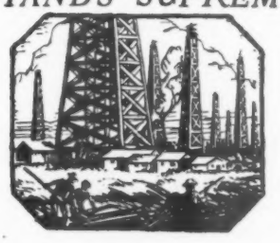



THE BARTLETT HAYWARD CO.
200 Scott Street · BALTIMORE, MD.

Write today for free BOOK



# ASCO STEEL
## STANDS SUPREME



Every step in the production of Asco Steel is watched closely. From the selection of the raw materials to the finished product, the first thought always is to produce a steel that will give the best results to the makers of Oil Well Tools. Can we help you to produce better tools?

DISTRICT OFFICES:
503 Phil Tower Bldg., Tulsa, Okla.
541 McCormick Bldg., Chicago, Ill.

THE ANDREWS STEEL CO
NEWPORT KENTUCKY



# Only *in the products of* NORRIS BROTHERS can NO-CO-RO *be* Obtained!

## ANSWERING YOUR QUESTIONS REGARDING THIS MOST UNUSUAL MATERIAL

NO-CO-RO is an alloy especially made to meet oil industry conditions. It is the product of many years' extensive research and experiment.

Its characteristics are a tenacious hardness (few shops would attempt to machine it) plus steadfast refusal to pit, chip or corrode even under highly adverse salt and acid conditions.

Hundreds of instances are on file to demonstrate the ability of NO-CO-RO to hold its own against exacting conditions. Here are a few:

In a Kansas well a product made of NO-CO-RO gave *36 months'* service in a well that formerly required a replacement each month.

A general manager of a prominent producing company decided to use a Drop & Seat made of NO-CO-RO in a well in which even the best Balls & Seats were lasting but a short time. At the time of his report the Drop & Seat had given six times the service of the best Ball & Seat and was still operating perfectly.

NO-CO-RO is obtainable exclusively in the products of Norris Brothers, Inc. It is made from Norris Brothers' *private* formula and never sold elsewhere. Expert heat-treatment under graduate-engineer guidance, and machining by specially designed equipment are further reasons for the almost unbelievable results secured by users of NO-CO-RO products.

Norris Brothers specialize in and have built their reputation on pumping equipment of all kinds. All Norris Brothers products (Balls & Seats, Drops & Seats, Sucker Rods, Stuffing Boxes, etc.,) are unreservedly guaranteed to outwear and out-perform the equipment that you are now using. This is not an idle boast—but the result of intimate knowledge and the observance of record after record testifying to the amazing capacity of Norris Brothers' Products for service.

The choice of Norris Brothers products is a guaranteed way of reducing operating expense. We are at your service, in Fort Worth, Texas, Robinson, Illinois and Owensboro, Ky.

*The NO-CO-RO Drop & Seat is guaranteed to outlast the two best Balls & Seats you have ever used. A sure way to reduce pumping costs!*

NORRIS BROTHERS, Inc.
ROBINSON, ILLINOIS
FORT WORTH, TEXAS
OWENSBORO, KY.

# Promoting Fellowship in the Oil Industry

Organized for the purpose of broadening acquaintances in the Oil Industry in North Texas, the Dallas Wildcat Committee of the Texas Division of the Mid-Continent Oil and Gas Association has already achieved its purpose.

A greater degree of confidence and better understanding has come about and through social relationship oil men in Dallas and surrounding territory are comng together as friends as well as business associates with the result that a better and brighter era already is at hand. Thus is being promoted the best interests of the Industry.

DALLAS WILDCAT COMMITTEE
*of the Texas Division of the*

## Mid-Continent Oil and Gas Association

DALLAS, TEXAS

# TEXACO

**Petroleum Products**

## HIGH GRADE UNIFORM QUALITY

| | | | |
|---|---|---|---|
| Gasoline | Pale Oils | Machine Oils | Waxes |
| Kerosene | Red Oils | Cylinder Oils | Asphalts |
| Fuel Oils | Black Oil | Car Oils | Road Oils |
| Diesel Fuels | Floor Oils | Greases | Asphalt Cement |
| Bunker Oils | Spindle Oils | Cup Greases | Pipe Coating |
| Signal Oils | Motor Oils | Gear Lubricants | Roofing |
| Miners Oil | Engine Oils | Axle Greases | Roofing Cement |
| Gas Oil | Dynamo Oils | Wire Rope Lubricants | |
| Distillates | | | |

## THE TEXAS COMPANY

**New York** — 17 Battery Place

**Chicago** — McCormick Bldg.

**Houston** — The Texas Company Bldg.

Offices in Principal Cities

**Export Dept.** 17 Battery Place, New York

*General Offices*
*65 Broadway, New York*

# AMERADA CORPORATION

*Petroleum Building*
*Tulsa, Oklahoma*

# ANDERSON-PRICHARD OIL CORPORATION

## COL-TEX REFINING COMPANY

GENERAL SALES OFFICE—OKLAHOMA CITY

REFINERIES: Colorado, Texas; Wichita Falls, Cyril, Oklahoma.

FUEL OIL—GAS OIL—GASOLINE—KEROSENE—DISTILLATE—TECHNICAL NAPHTHAS

**FOR IMMEDIATE SHIPMENT** to any field in Oklahoma or Texas, a special distillate very suitable for internal combustion drilling engines. We can also supply fuel oil and gas oil anywhere in these two states.

**COL-TEX ANTI - KNOCK GASOLINE.** We are exclusive refiners of this Anti-Knock Gasoline. Actual tests show it in excess of 25% Benzol blend. Write, call or wire for complete information.

# Gulf Refining Company

OKLAHOMA
TEXAS
LOUISIANA

*Refiners of* PETROLEUM

GASOLINE
REFINED OIL
NAPHTHA
GAS OILS
PARAFFINE WAX
PETROLEUM COKE
FUEL OIL
LUBRICATING OILS
CYLINDER
ENGINE
CORDAGE

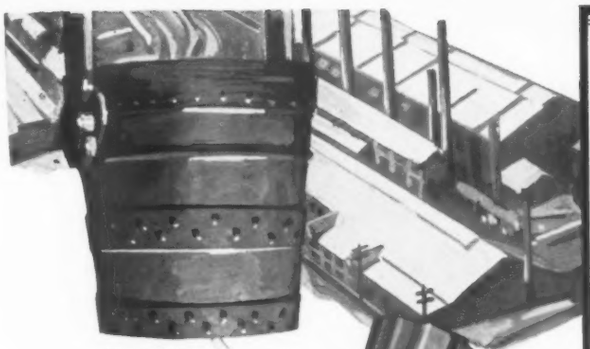
## Red and Pale Paraffine Oils

General Sales Offices: PITTSBURGH, PA.

*District Sales Offices:*
NEW YORK, HOUSTON, ATLANTA, BOSTON, NEW ORLEANS, PHILADELPHIA, LOUISVILLE

*Ocean Terminals:*

Boston (Beverly), Mass.
Providence, R. I.
New York Harbor (Bayonne, N.J.)
Jacksonville, Fla.
Port Tampa, Fla.
Mobile (Magazine Point, Ala.)
Philadelphia (Girard Point, Pa.)
Charleston, S. C.
Savannah, Ga.
New Orleans (Gretna, La.)
Port Arthur, Texas
Galveston, Texas



Ladle

Ingot

Plate

Billet

Cylinder

Coupling

## *"I'll say they're good couplings"*

"In all the years I've used 'em I never found a Harrisburg Coupling that didn't rate a 100% mark for dependability, efficiency and all 'round satisfaction.

"And I'll bet any other Harrisburg user you talk to will say the same thing."

## *"Here's how they're made"*

"From ladle to ingot, then on to plate or billet, to cylinder and finally to finished coupling—every operation takes place in Harrisburg's own plant, under the watchful eyes of Harrisburg's thoroughly experienced and specially trained supervisors.

"In owning and operating its own open hearth furnaces, rolling mills and forge shops Harrisburg completely controls *every* phase in the making of these widely used couplings. And that's a real advantage to all their customers."

**HARRISBURG PIPE & PIPE BENDING CO.**

**HARRISBURG, PA.**

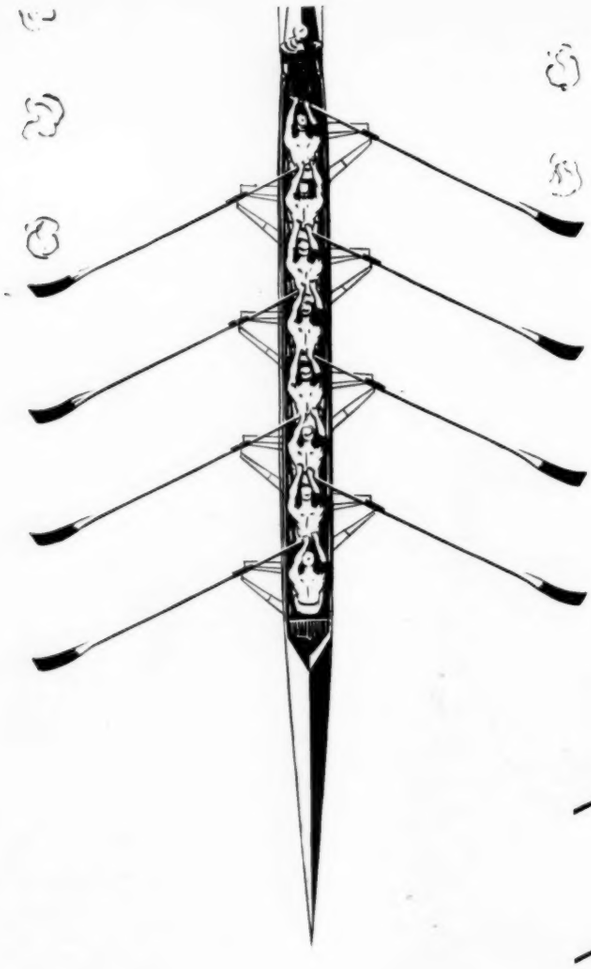
*Fully equipped with Our Own Open Hearth Furnaces, Rolling Mills and Forge Shops.*

**DISTRIBUTORS:**

Harrisburg Pipe & Pipe Bending Co. of Texas, Inc., Houston, Texas
Harrisburg Supply Co., Tulsa, Oklahoma
George J. Hausen, Inc., San Francisco, Los Angeles and Taft, Calif.

# HARRISBURG

**FORGED SEAMLESS STEEL COUPLINGS**



# *Axelson* employs the spirit of *teamwork*

The industrial world is coming to a full realization of the value of team-work — collective effort and concerted action. Axelson long ago recognized the value of whole-hearted co-operation. From the very inception of our business we have made it a point to foster and develop a spirit of team-work throughout our entire Organization and to apply team-work principles to the service rendered to customers. Axelson service functions in a smoothly adjusted and co-ordinated manner, winning for Axelson Pumps and Sucker Rods the strongest endorsement in the Oil Industry. Our entire attention is concentrated on the manufacture of two Products and in providing "follow-through" service of highest excellence for you.

THERE IS NO ECONOMICAL SUBSTITUTE FOR QUALITY

*Axelson*

# PUMPS & SUCKER RODS

**Axelson Machine Company**

P. O. Box 337, Los Angeles. Tulsa, St. Louis, New York City
Mid-Continent and Eastern Distributors—Frick-Reid Suply Corporation